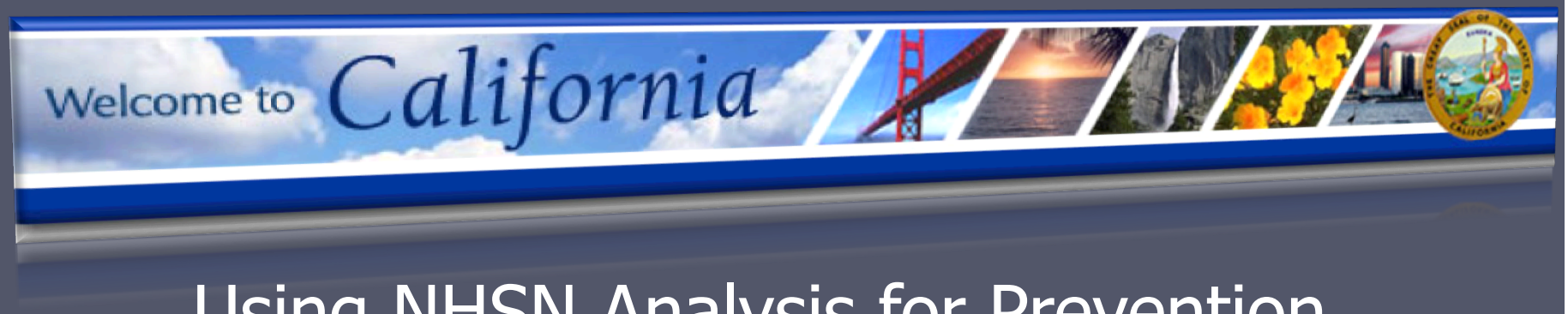

Using NHSN Analysis for Prevention

Getting Started

March 2012

HAI Liaison Program
Hospital-Associated Infections Program
Center for Health Care Quality
California Department of Public Health

Review of NHSN Analysis Basics Objectives

By the end of this session, participants will be able to:

- Understand the basic features of the NHSN Analysis Function
- Demonstrate how and when to generate a data set
- Explore standard NHSN-prepared reports using the output "run" function
- Explore how the output "modify" function can be used to personalize reports

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Healthcare-associated Infections HAI Elimination

Understanding the Basic Features of the NHSN Analysis Function

- Analysis features provide NHSN users an opportunity to utilize the data they entered into NHSN
- Facility data in NHSN can be correlated and analyzed using the output options
- Analysis section is organized by modules (i.e. Device-Associated, Procedure-Associated, MDRO/CDI, etc.); each has standard CDC reports for quick, convenient analysis of data

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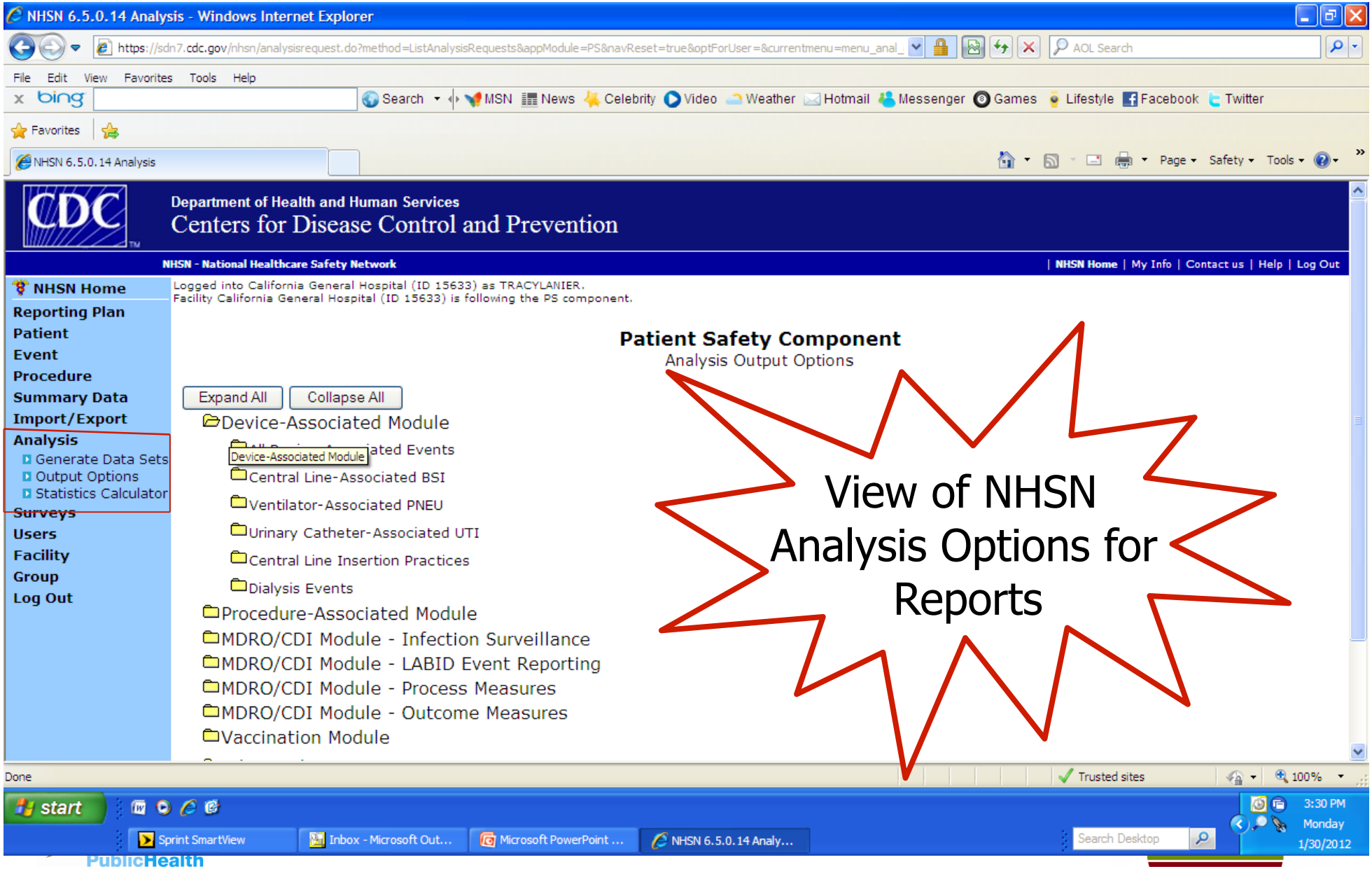
Healthcare-associated Infections HAI Elimination


NHSN 6.5.0.14 Analysis - Windows Internet Explorer
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CDC
Department of Health and Human Services
Centers for Disease Control and Prevention
NHSN - National Healthcare Safety Network
NHSN Home | My Info | Contact us | Help | Log Out
NHSN Home
Reporting Plan
Patient
Event
Procedure
Summary Data
Import/Export
Analysis
Generate Data Sets
Output Options
Statistics Calculator
Surveys
Users
Facility
Group
Log Out
Logged into California General Hospital (ID 15633) as TRACYLANIER.
Facility California General Hospital (ID 15633) is following the PS component.
Patient Safety Component
Analysis Output Options
Expand All
Collapse All
Device-Associated Module
Device-Associated Module
Central Line-Associated BSI
Ventilator-Associated PNEU
Urinary Catheter-Associated UTI
Central Line Insertion Practices
Dialysis Events
Procedure-Associated Module
MDRO/CDI Module - Infection Surveillance
MDRO/CDI Module - LABID Event Reporting
MDRO/CDI Module - Process Measures
MDRO/CDI Module - Outcome Measures
Vaccination Module
View of NHSN Analysis Options for Reports
Done
Trusted sites
100%
start
Sprint SmartView
Inbox - Microsoft Out...
Microsoft PowerPoint ...
NHSN 6.5.0.14 Analy...
Search Desktop
3:30 PM
Monday
1/30/2012

Understanding the Basic Features of the NHSN Analysis Reports

Reports may be:

- Modified for individual user preferences
- Created and saved for future use
- Exported to other programs (i.e. Excel, Access)
- Published for use by all users in a facility/system
- Saved in "stacks" (a series of different reports saved together as a package to be displayed/printed in a specific order for future use)

Where to Start…?

Generating a Data Set

- Generating a new data set creates a virtual "photocopy" of your NHSN data which is stored on the CDC database
- Each time new data are added, and you want to view or print information about the data, you should generate a new data set
- **Changes made to the data set do not affect the NHSN data base**
- Do not be afraid to use the analysis tools – you will not alter your NHSN information in the database with these tools!

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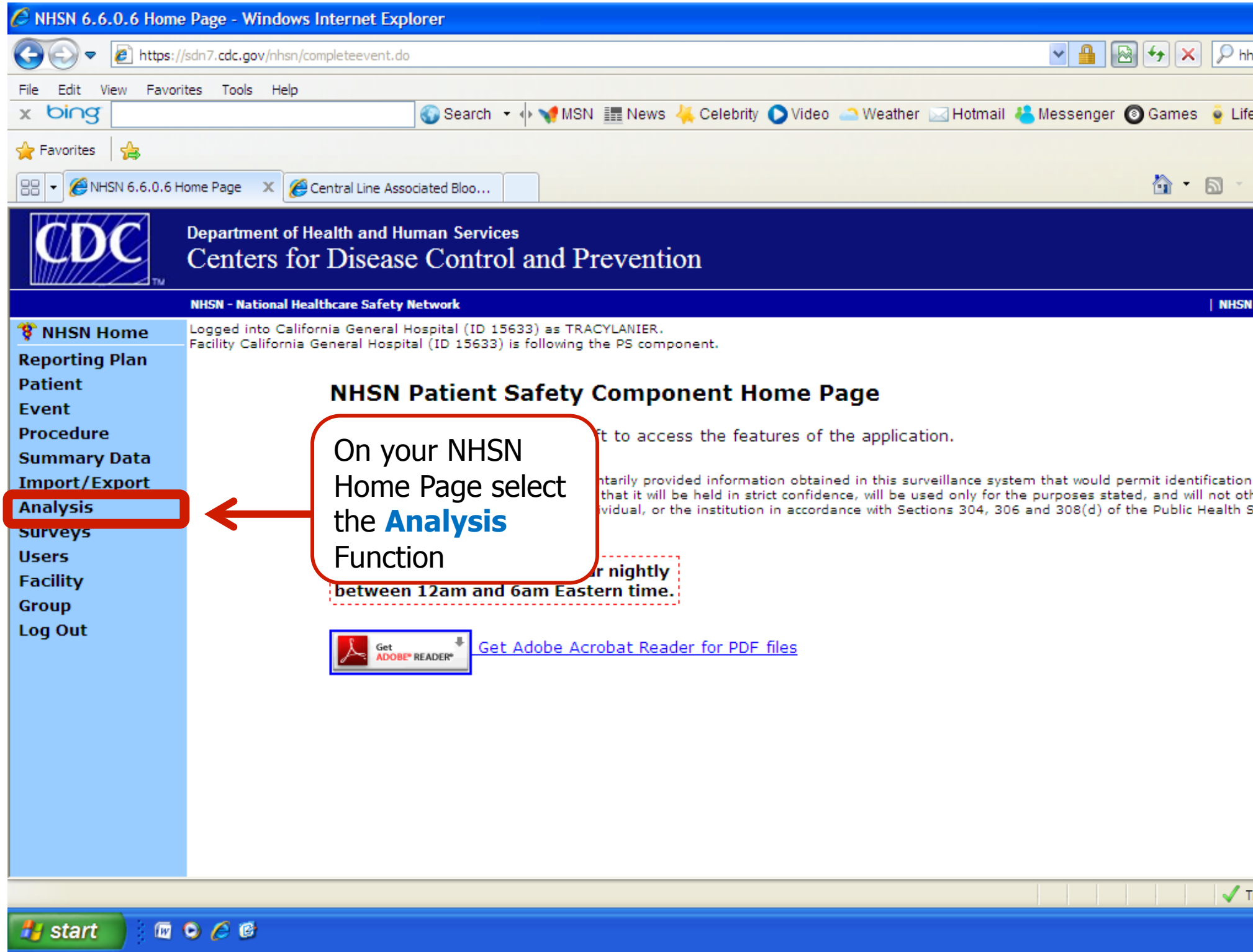
Healthcare-associated Infections HAI Elimination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NHSN - National Healthcare Safety Network
NHSN Home
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Summary Data
Import/Export
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Surveys
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Facility
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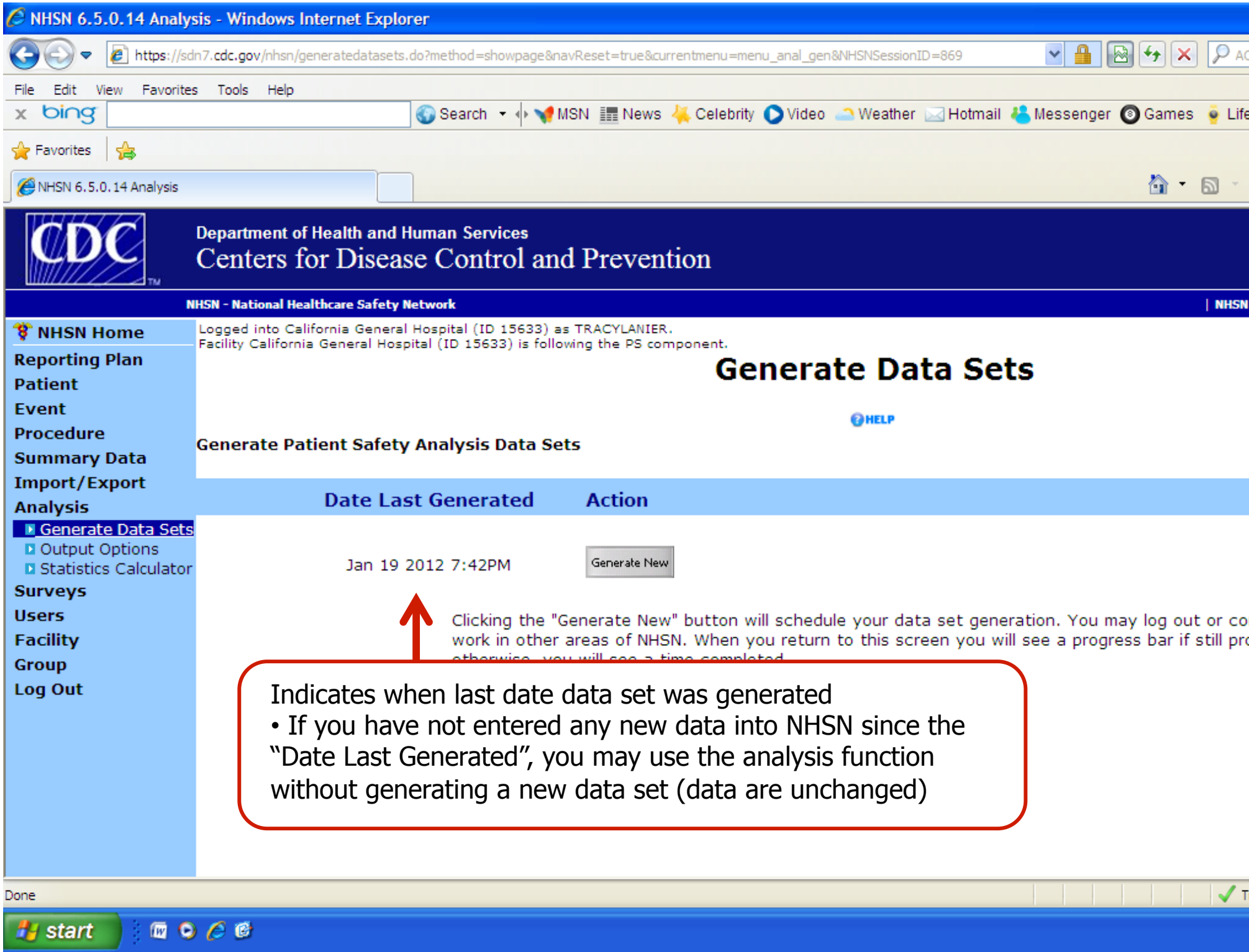
Logged into California General Hospital (ID 15633) as TRACYLANIER.
Facility California General Hospital (ID 15633) is following the PS component.
NHSN Patient Safety Component Home Page
ft to access the features of the application.
ntarily provided information obtained in this surveillance system that would permit identification
that it will be held in strict confidence, will be used only for the purposes stated, and will not oth
ividual, or the institution in accordance with Sections 304, 306 and 308(d) of the Public Health S
r nightly
between 12am and 6am Eastern time.
Get ADOBE READER
Get Adobe Acrobat Reader for PDF files
On your NHSN Home Page select the Analysis Function
start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NHSN - National Healthcare Safety Network
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Reporting Plan
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Procedure
Summary Data
Import/Export
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Output Options
Statistics Calculator
Surveys
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Facility
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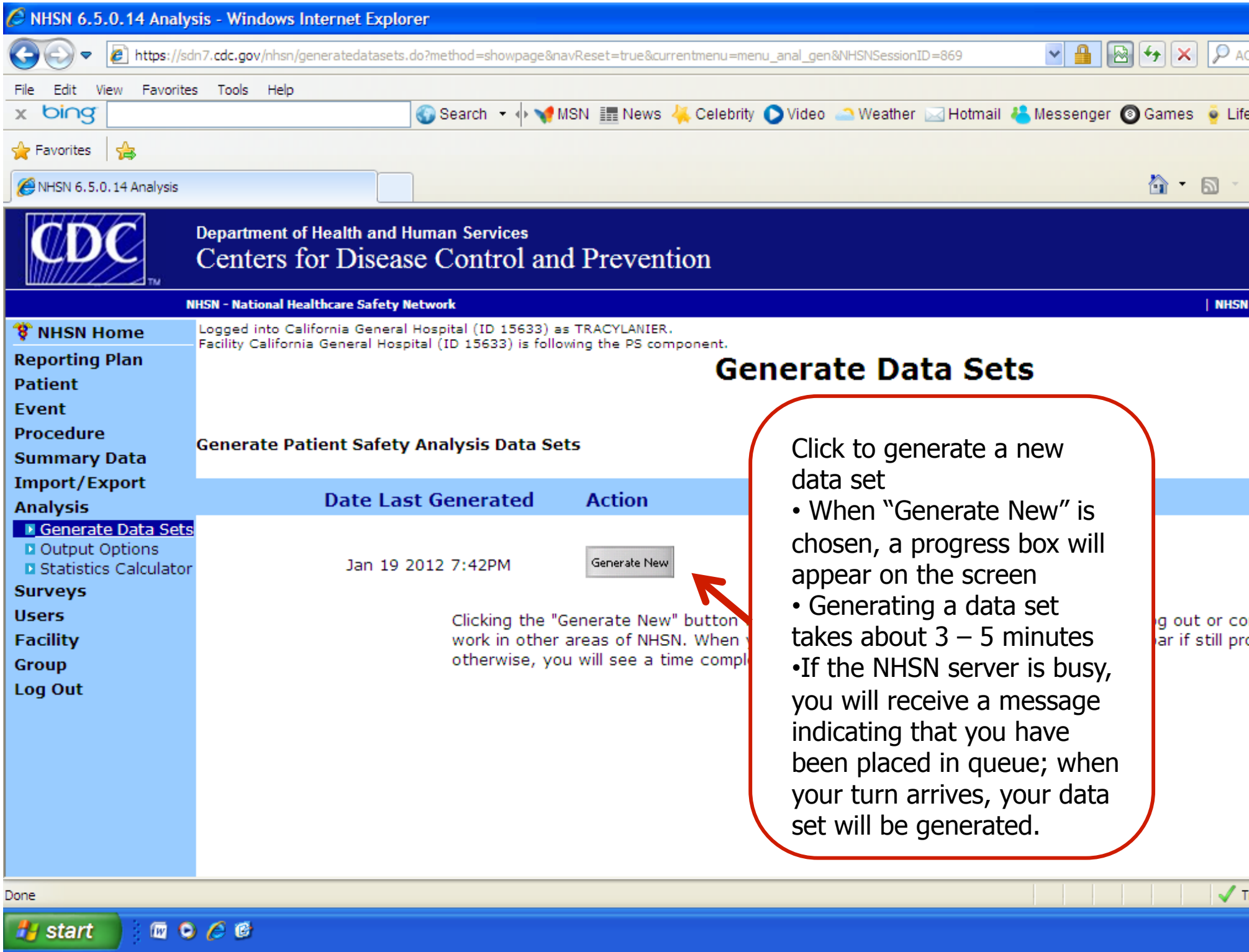
Log Out
Logged into California General Hospital (ID 15633) as TRACYLANIER.
Facility California General Hospital (ID 15633) is following the PS component.
Generate Data Sets
HELP
Generate Patient Safety Analysis Data Sets
Date Last Generated
Action
Jan 19 2012 7:42PM
Generate New
Clicking the "Generate New" button will schedule your data set generation. You may log out or co
work in other areas of NHSN. When you return to this screen you will see a progress bar if still pro
Indicates when last date data set was generated
• If you have not entered any new data into NHSN since the "Date Last Generated", you may use the analysis function without generating a new data set (data are unchanged)
Done
start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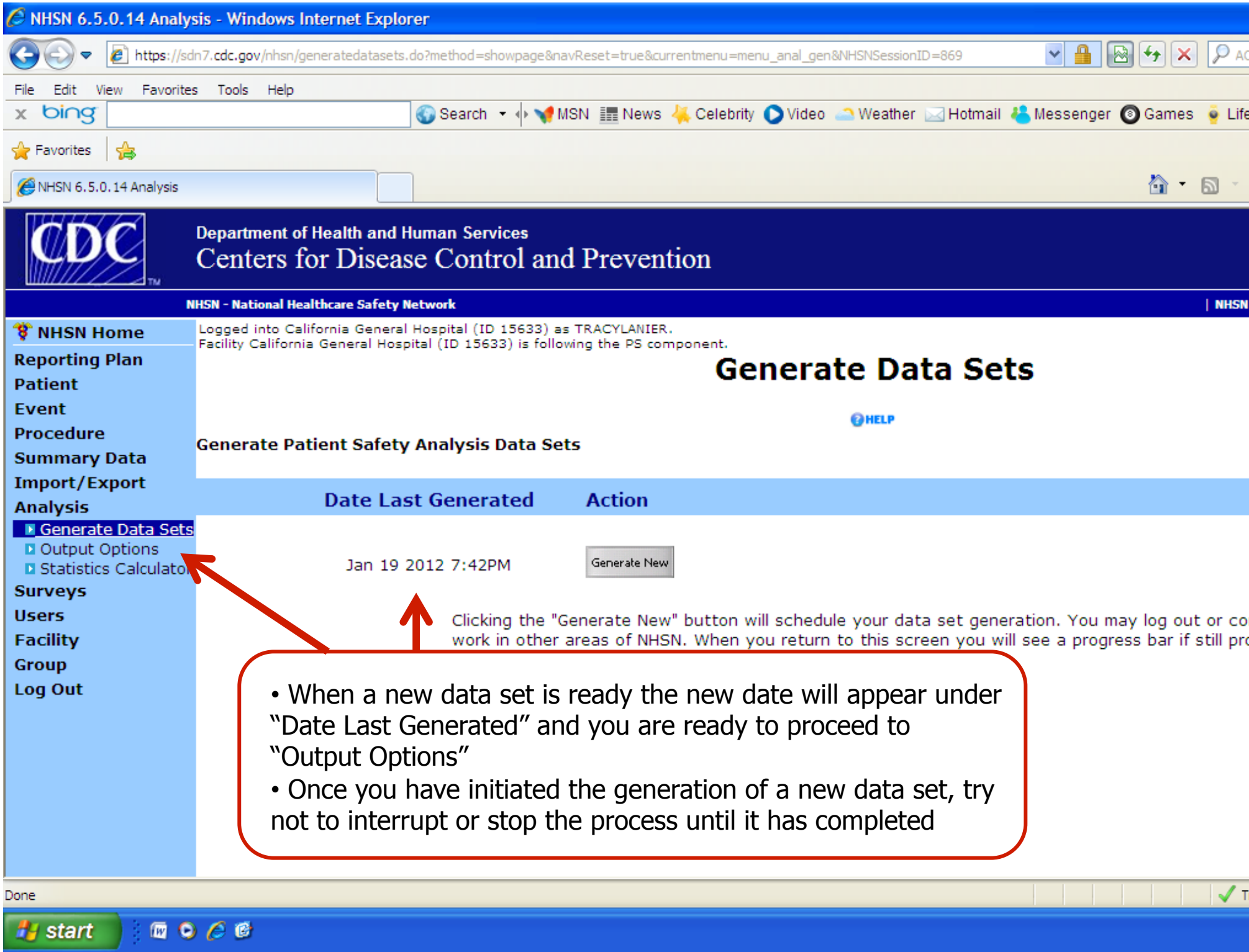
Date Last Generated
Action
Jan 19 2012 7:42PM
Generate New
Clicking the "Generate New" button
work in other areas of NHSN. When
otherwise, you will see a time compl
Click to generate a new data set
• When "Generate New" is chosen, a progress box will appear on the screen
• Generating a data set takes about 3 – 5 minutes
•If the NHSN server is busy, you will receive a message indicating that you have been placed in queue; when your turn arrives, your data set will be generated.
Done
start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Date Last Generated
Action
Jan 19 2012 7:42PM
Generate New
Clicking the "Generate New" button will schedule your data set generation. You may log out or co
work in other areas of NHSN. When you return to this screen you will see a progress bar if still pro
• When a new data set is ready the new date will appear under "Date Last Generated" and you are ready to proceed to "Output Options"
• Once you have initiated the generation of a new data set, try not to interrupt or stop the process until it has completed
Done
start

"I've Generated a Data Set – Now What?"

A user can generate several types of output including line listings, frequency tables, pie charts, bar charts, rate tables, line plots and control charts using the Output Options

- When an output option is executed, the output will display in a separate browser window that can be printed or saved as a file on a local computer workstation

To use the Analysis functions, you must enable pop-ups from NHSN on your computer!

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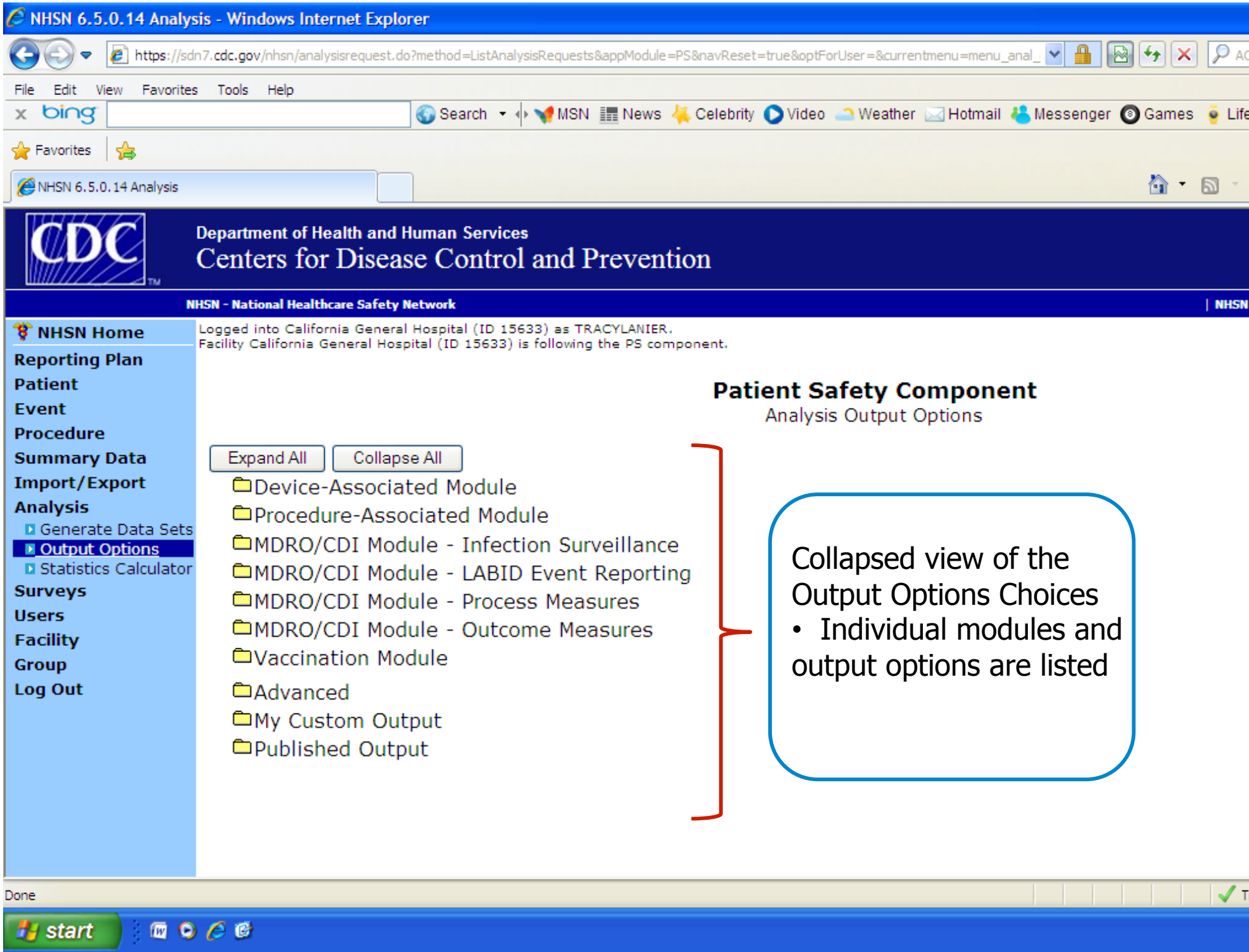
Healthcare-associated Infections HAI Elimination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Log Out
Logged into California General Hospital (ID 15633) as TRACYLANIER.
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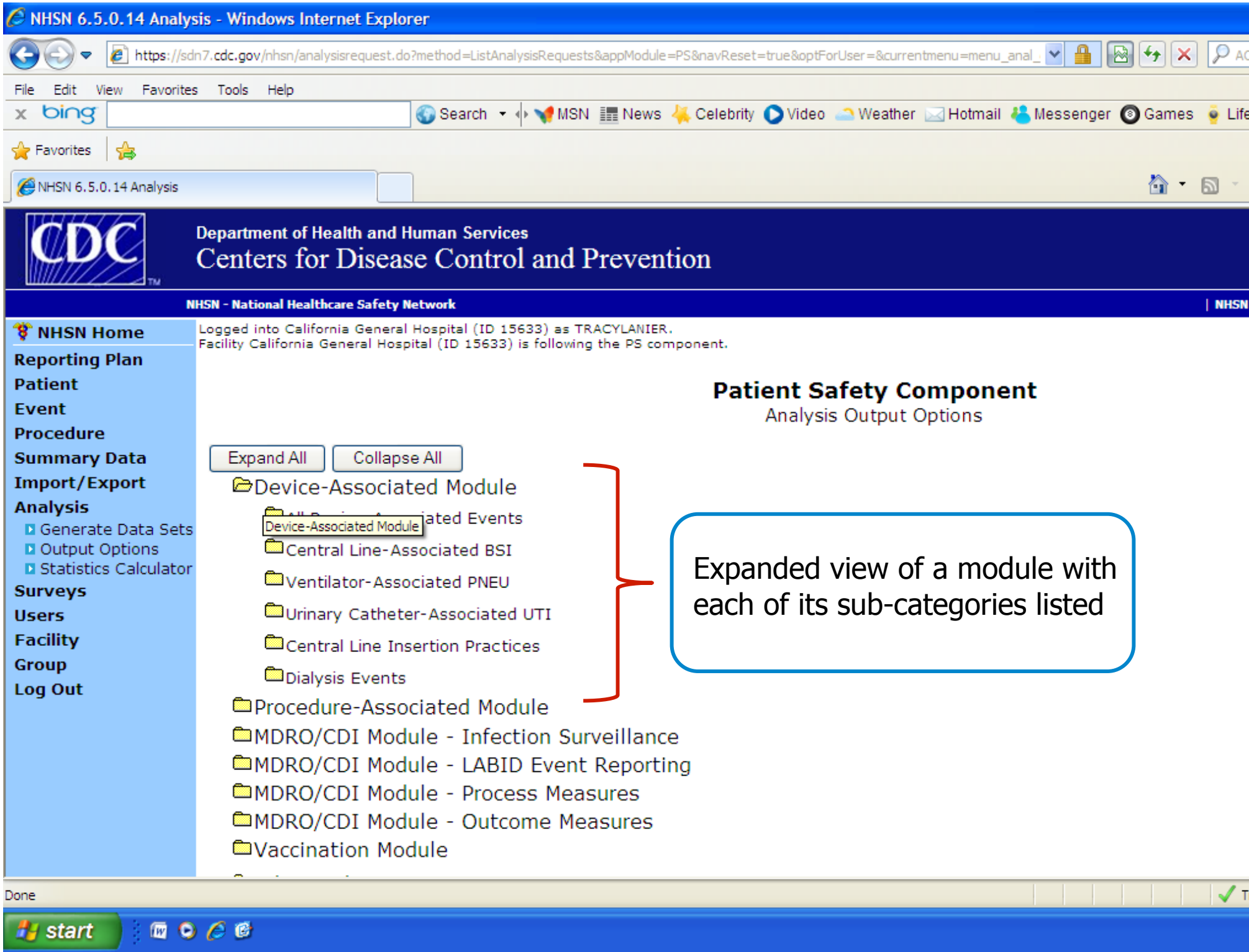
Patient Safety Component
Analysis Output Options
Expand All
Collapse All
Device-Associated Module
Procedure-Associated Module
MDRO/CDI Module - Infection Surveillance
MDRO/CDI Module - LABID Event Reporting
MDRO/CDI Module - Process Measures
MDRO/CDI Module - Outcome Measures
Vaccination Module
Advanced
My Custom Output
Published Output
Collapsed view of the Output Options Choices
• Individual modules and output options are listed
Done
start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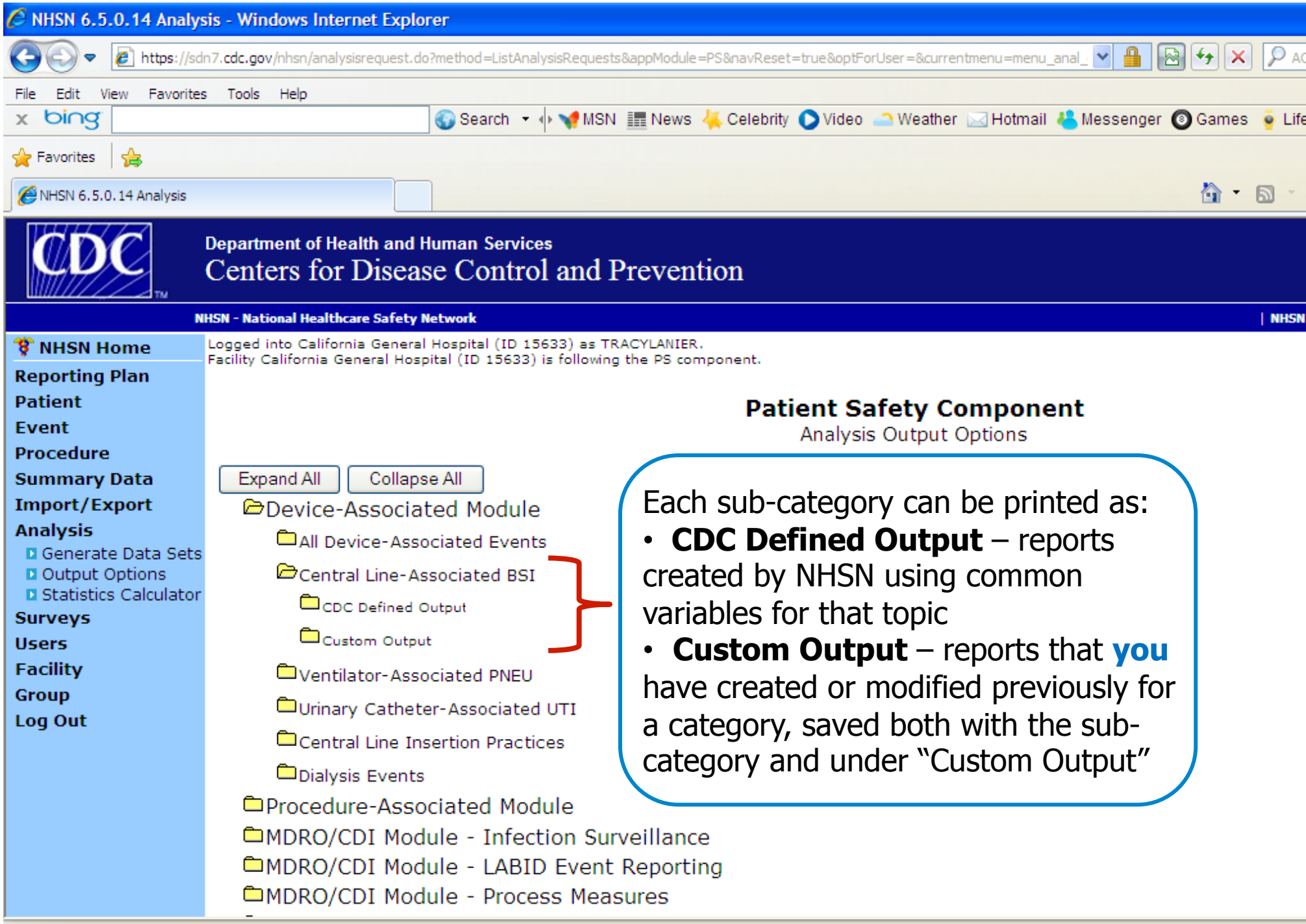
Central Line-Associated BSI
Ventilator-Associated PNEU
Urinary Catheter-Associated UTI
Central Line Insertion Practices
Dialysis Events
Procedure-Associated Module
MDRO/CDI Module - Infection Surveillance
MDRO/CDI Module - LABID Event Reporting
MDRO/CDI Module - Process Measures
MDRO/CDI Module - Outcome Measures
Vaccination Module
Expanded view of a module with each of its sub-categories listed
Done
start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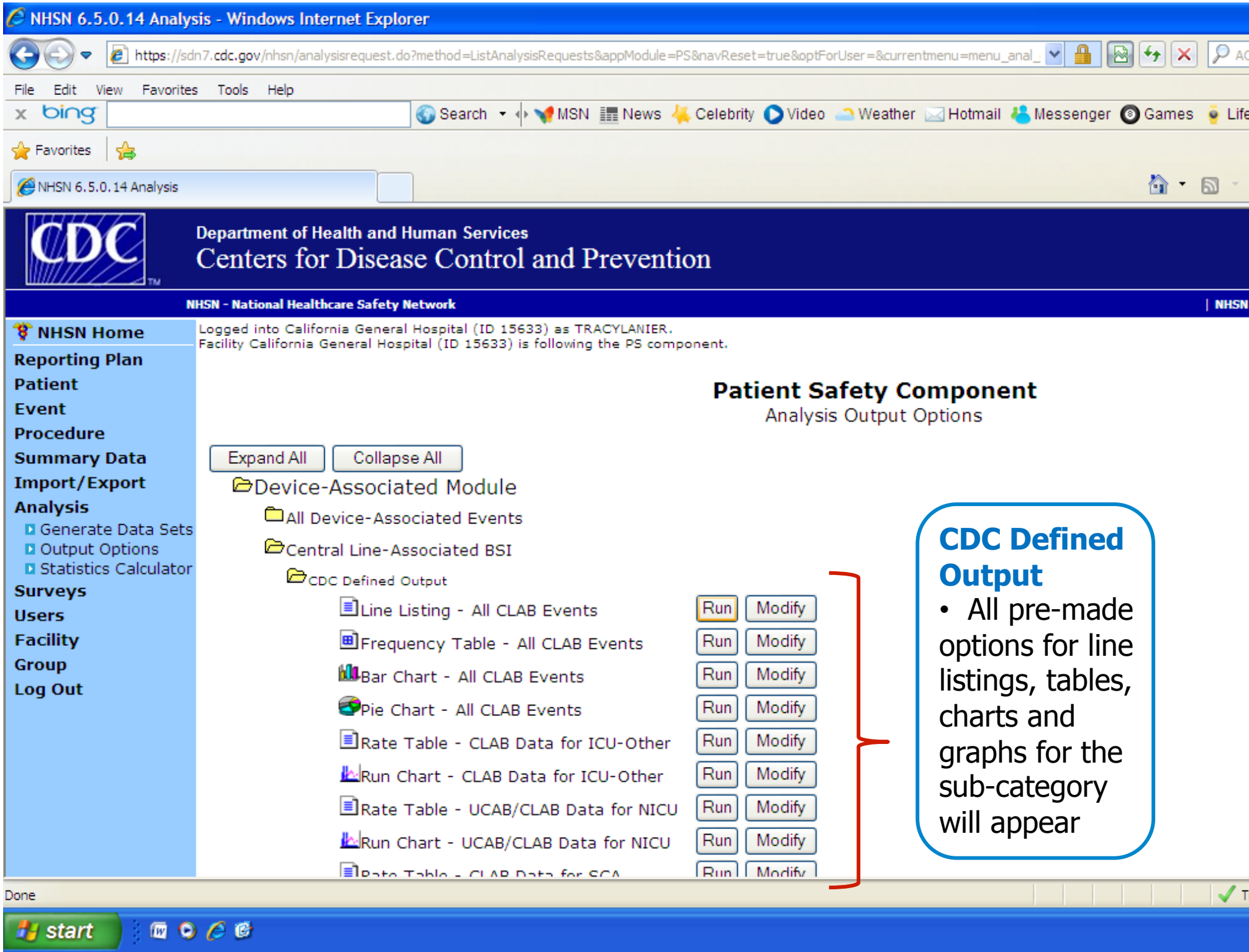
Patient Safety Component
Analysis Output Options
Expand All
Collapse All
Device-Associated Module
All Device-Associated Events
Central Line-Associated BSI
CDC Defined Output
Custom Output
Ventilator-Associated PNEU
Urinary Catheter-Associated UTI
Central Line Insertion Practices
Dialysis Events
Procedure-Associated Module
MDRO/CDI Module - Infection Surveillance
MDRO/CDI Module - LABID Event Reporting
MDRO/CDI Module - Process Measures
Each sub-category can be printed as:
• CDC Defined Output – reports created by NHSN using common variables for that topic
• Custom Output – reports that you have created or modified previously for a category, saved both with the sub-category and under "Custom Output"
Done
start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Patient Safety Component
Analysis Output Options
Expand All
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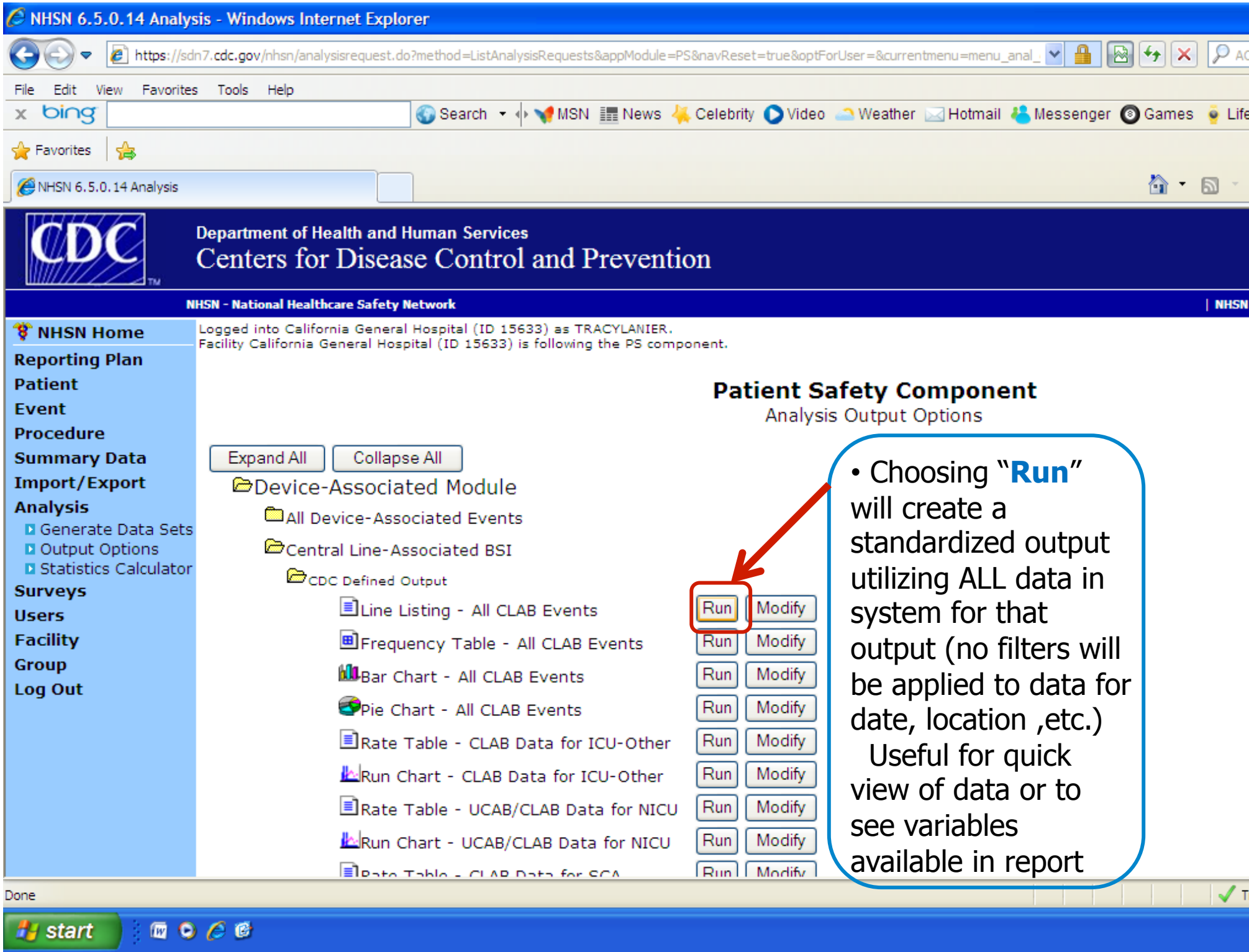
Device-Associated Module
All Device-Associated Events
Central Line-Associated BSI
CDC Defined Output
Line Listing - All CLAB Events
Frequency Table - All CLAB Events
Bar Chart - All CLAB Events
Pie Chart - All CLAB Events
Rate Table - CLAB Data for ICU-Other
Run Chart - CLAB Data for ICU-Other
Rate Table - UCAB/CLAB Data for NICU
Run Chart - UCAB/CLAB Data for NICU
Run
Modify
CDC Defined Output
• All pre-made options for line listings, tables, charts and graphs for the sub-category will appear
Done
start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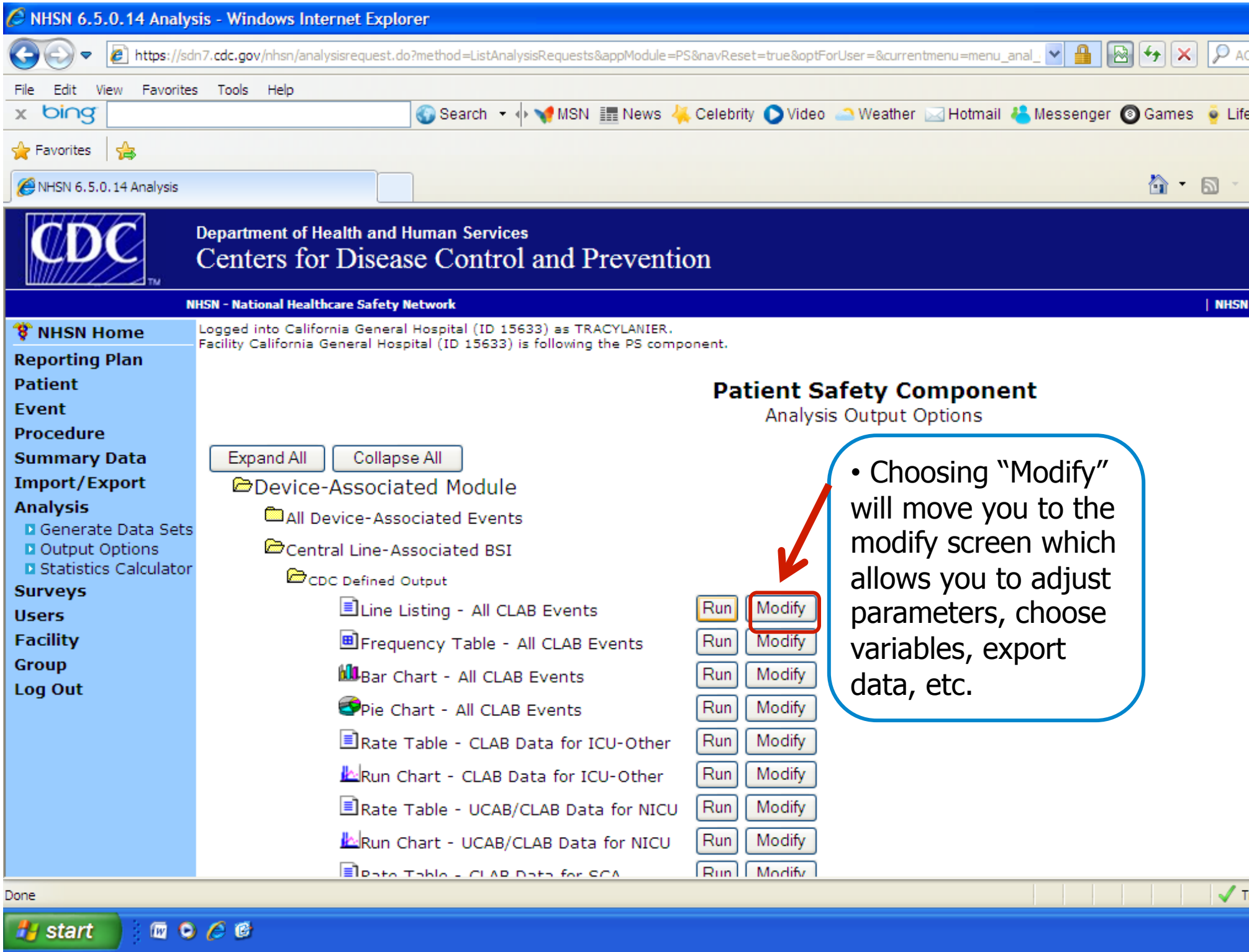
Bar Chart - All CLAB Events
Pie Chart - All CLAB Events
Rate Table - CLAB Data for ICU-Other
Run Chart - CLAB Data for ICU-Other
Rate Table - UCAB/CLAB Data for NICU
Run Chart - UCAB/CLAB Data for NICU
Run
Modify
• Choosing "Run" will create a standardized output utilizing ALL data in system for that output (no filters will be applied to data for date, location ,etc.)
Useful for quick view of data or to see variables available in report
Done
start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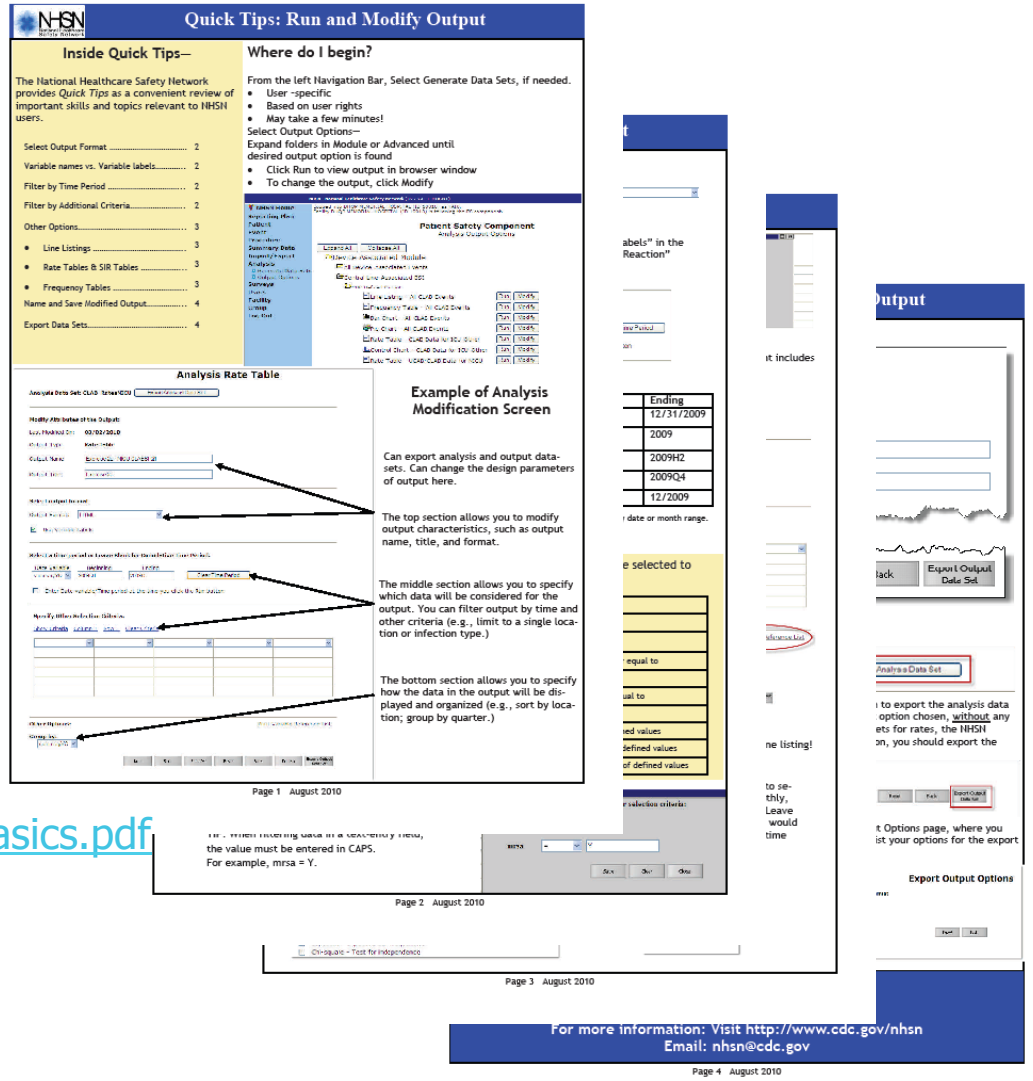
Pie Chart - All CLAB Events
Rate Table - CLAB Data for ICU-Other
Run Chart - CLAB Data for ICU-Other
Rate Table - UCAB/CLAB Data for NICU
Run Chart - UCAB/CLAB Data for NICU
Run
Modify
• Choosing "Modify" will move you to the modify screen which allows you to adjust parameters, choose variables, export data, etc.
Done
start

NHSN Quick Tips Document

NHSN has a great summary document that describes all of the features in the "Modify" function

NHSN Quick Tips Document Link:

http://www.cdc.gov/nhsn/PDFs/AnalysisBasics.pdf



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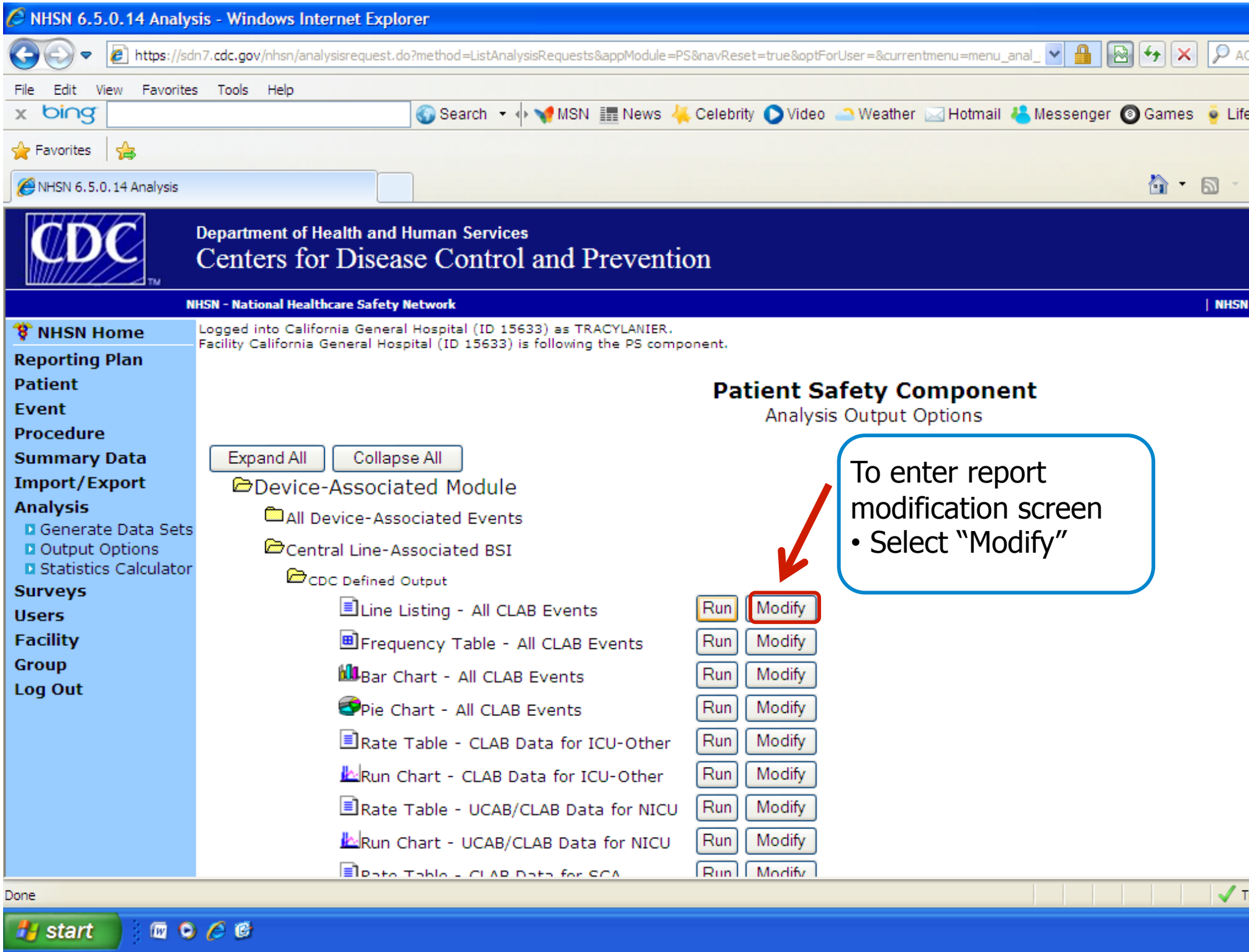
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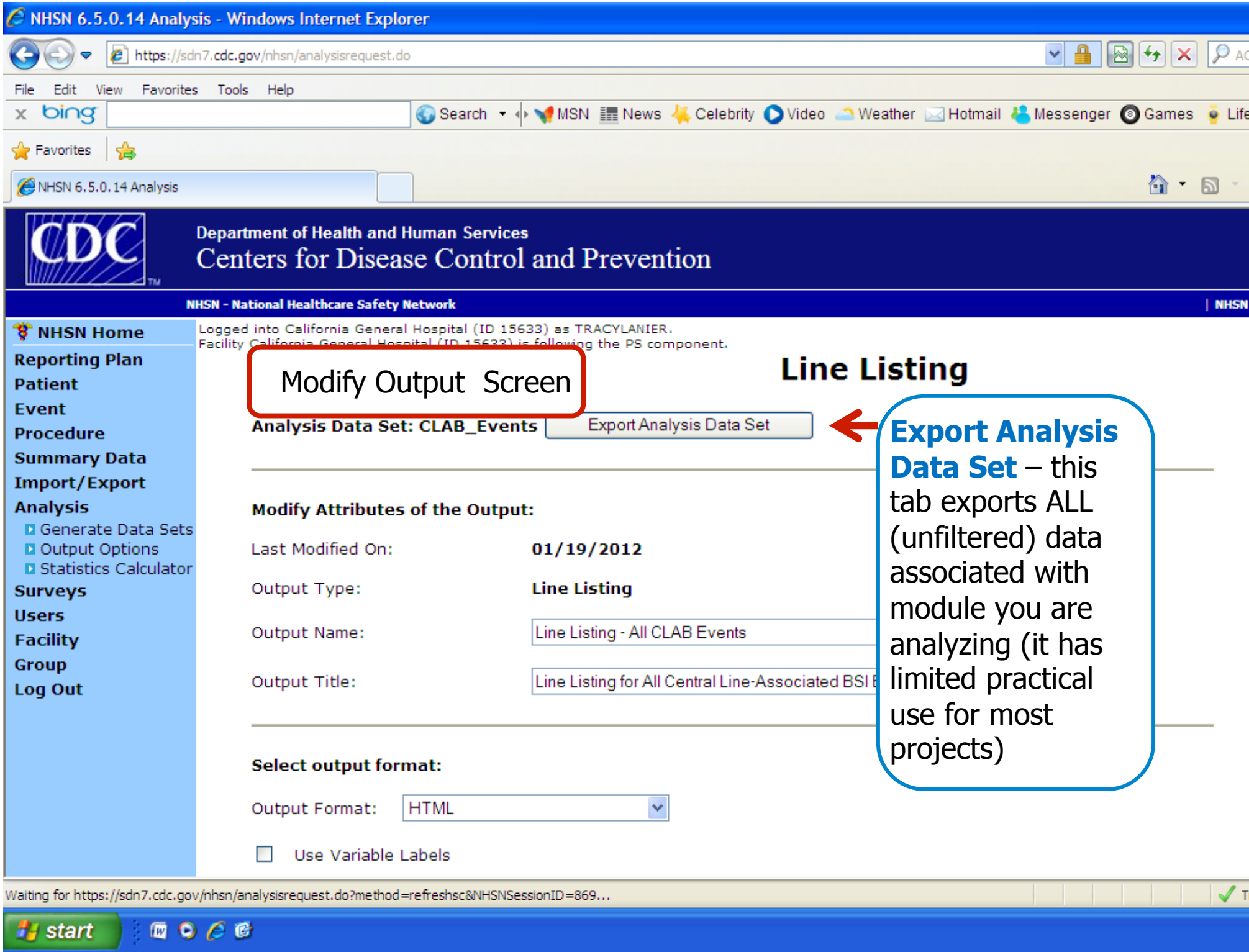
Rate Table - CLAB Data for ICU-Other
Run Chart - CLAB Data for ICU-Other
Rate Table - UCAB/CLAB Data for NICU
Run Chart - UCAB/CLAB Data for NICU
Run
Modify
To enter report modification screen
• Select "Modify"
Done
start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Logged into California General Hospital (ID 15633) as TRACYLANIER.
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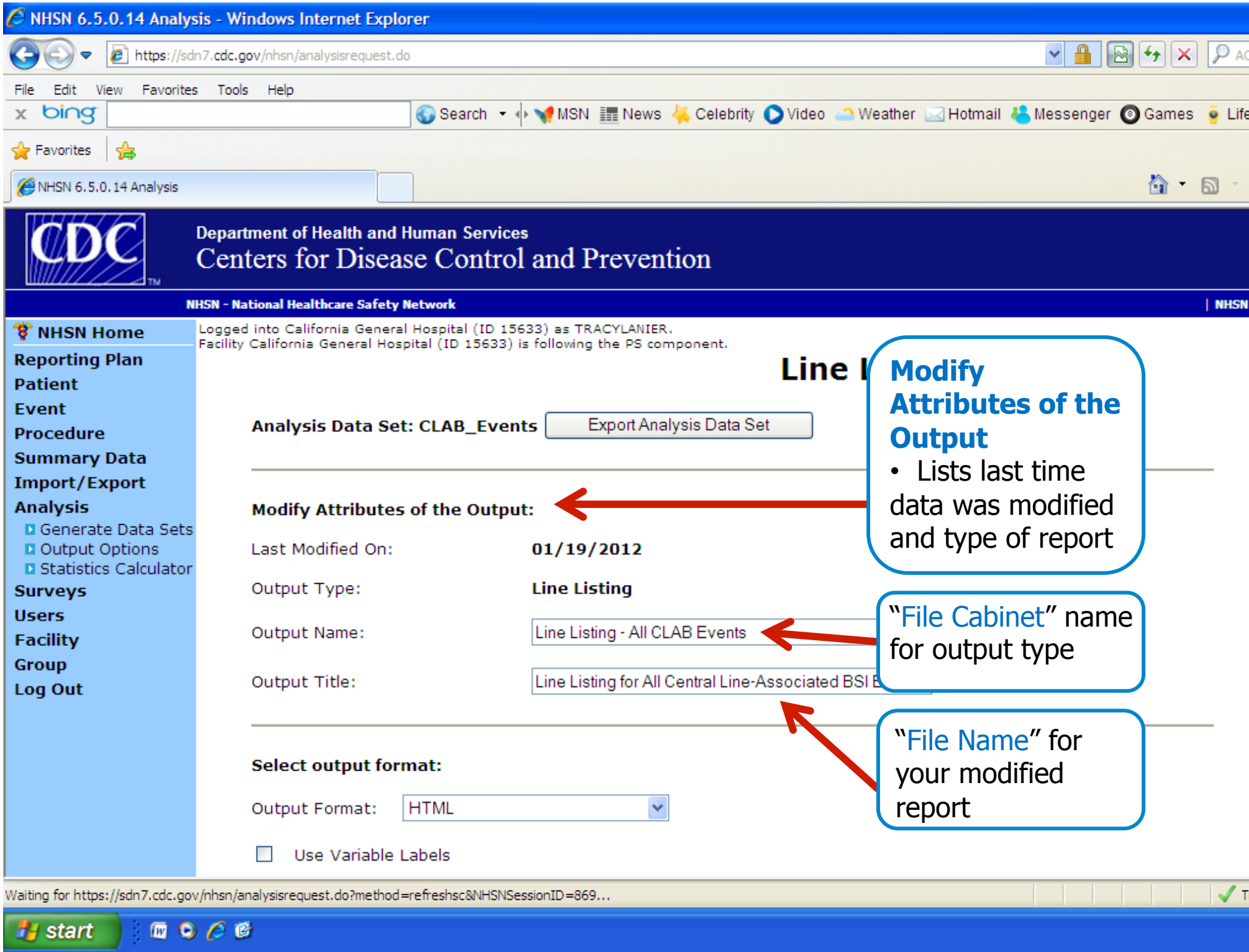
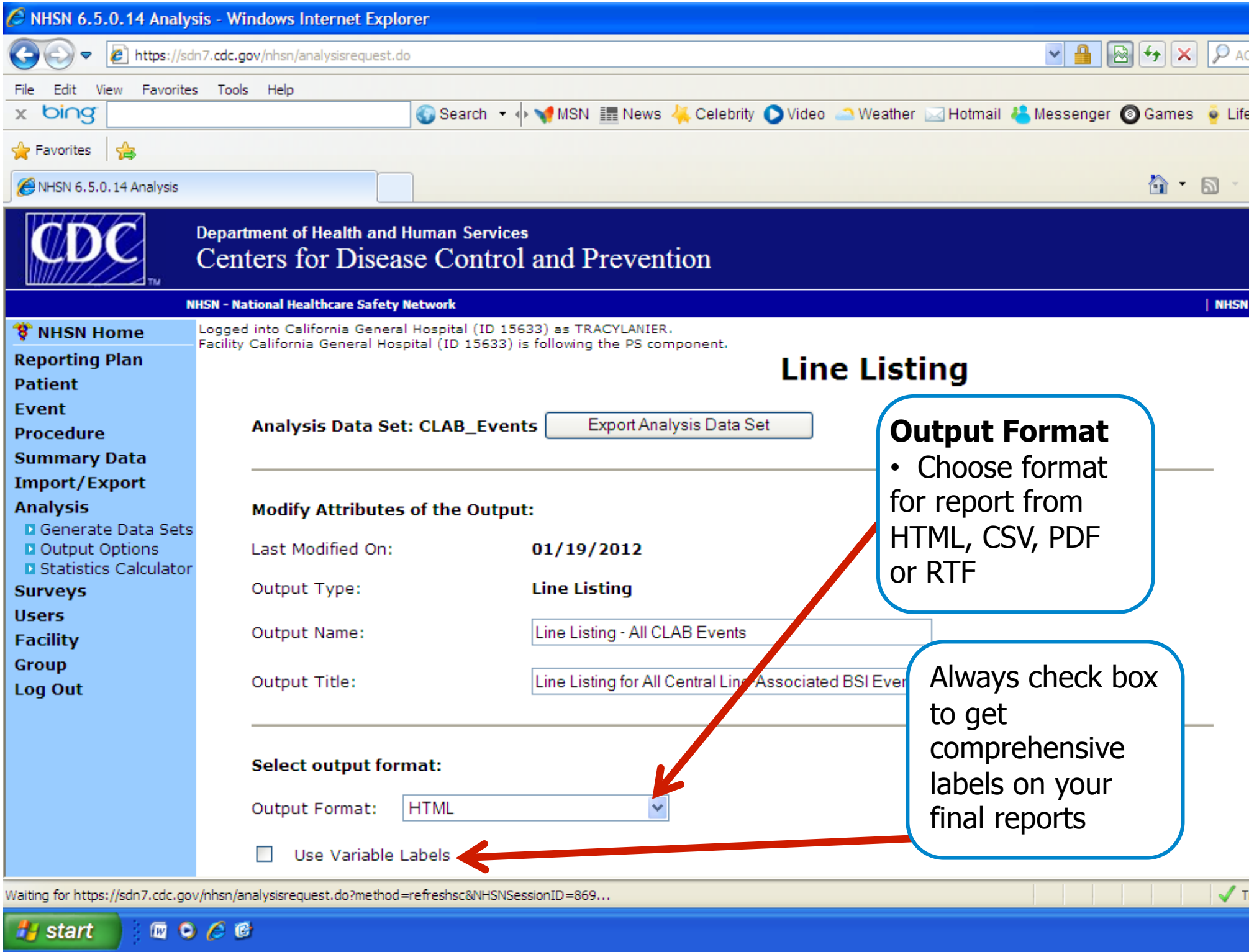
Modify Output Screen
Line Listing
Analysis Data Set: CLAB_Events
Export Analysis Data Set
Modify Attributes of the Output:
Last Modified On: 01/19/2012
Output Type: Line Listing
Output Name: Line Listing - All CLAB Events
Output Title: Line Listing for All Central Line-Associated BSI
Select output format:
Output Format: HTML
Use Variable Labels
Export Analysis Data Set – this tab exports ALL (unfiltered) data associated with module you are analyzing (it has limited practical use for most projects)
Waiting for https://sdn7.cdc.gov/nhsn/analysisrequest.do?method=refreshsc&NHSNSessionID=869...
start


NHSN 6.5.0.14 Analysis - Windows Internet Explorer
https://sdn7.cdc.gov/nhsn/analysisrequest.do
File Edit View Favorites Tools Help
Search MSN News Celebrity Video Weather Hotmail Messenger Games
Favorites
NHSN 6.5.0.14 Analysis
Department of Health and Human Services
Centers for Disease Control and Prevention
NHSN - National Healthcare Safety Network
NHSN Home
Reporting Plan
Patient
Event
Procedure
Summary Data
Import/Export
Analysis
Generate Data Sets
Output Options
Statistics Calculator
Surveys
Users
Facility
Group
Log Out
Logged into California General Hospital (ID 15633) as TRACYLANIER.
Facility California General Hospital (ID 15633) is following the PS component.
Line
Analysis Data Set: CLAB_Events
Export Analysis Data Set
Modify Attributes of the Output:
Last Modified On: 01/19/2012
Output Type: Line Listing
Output Name: Line Listing - All CLAB Events
Output Title: Line Listing for All Central Line-Associated BSI
Select output format:
Output Format: HTML
Use Variable Labels
Modify Attributes of the Output
• Lists last time data was modified and type of report
"File Cabinet" name for output type
"File Name" for your modified report
Waiting for https://sdn7.cdc.gov/nhsn/analysisrequest.do?method=refreshsc&NHSNSessionID=869...
start


NHSN 6.5.0.14 Analysis - Windows Internet Explorer
https://sdn7.cdc.gov/nhsn/analysisrequest.do
File Edit View Favorites Tools Help
Search MSN News Celebrity Video Weather Hotmail Messenger Games
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Statistics Calculator
Surveys
Users
Facility
Group
Log Out
Logged into California General Hospital (ID 15633) as TRACYLANIER.
Facility California General Hospital (ID 15633) is following the PS component.
Line Listing
Analysis Data Set: CLAB_Events
Export Analysis Data Set
Modify Attributes of the Output:
Last Modified On: 01/19/2012
Output Type: Line Listing
Output Name: Line Listing - All CLAB Events
Output Title: Line Listing for All Central Lin Associated BSI Ever
Select output format:
Output Format: HTML
Use Variable Labels
Output Format
• Choose format for report from HTML, CSV, PDF or RTF
Always check box to get comprehensive labels on your final reports
Waiting for https://sdn7.cdc.gov/nhsn/analysisrequest.do?method=refreshsc&NHSNSessionID=869...
start

Output Formats

PDF – "snap shot" of your data; easiest reports to interpret

- Data cannot be easily modified once in this format

HTML – Web page based document language[1]

- Default for all report unless changed; good graphical display of data

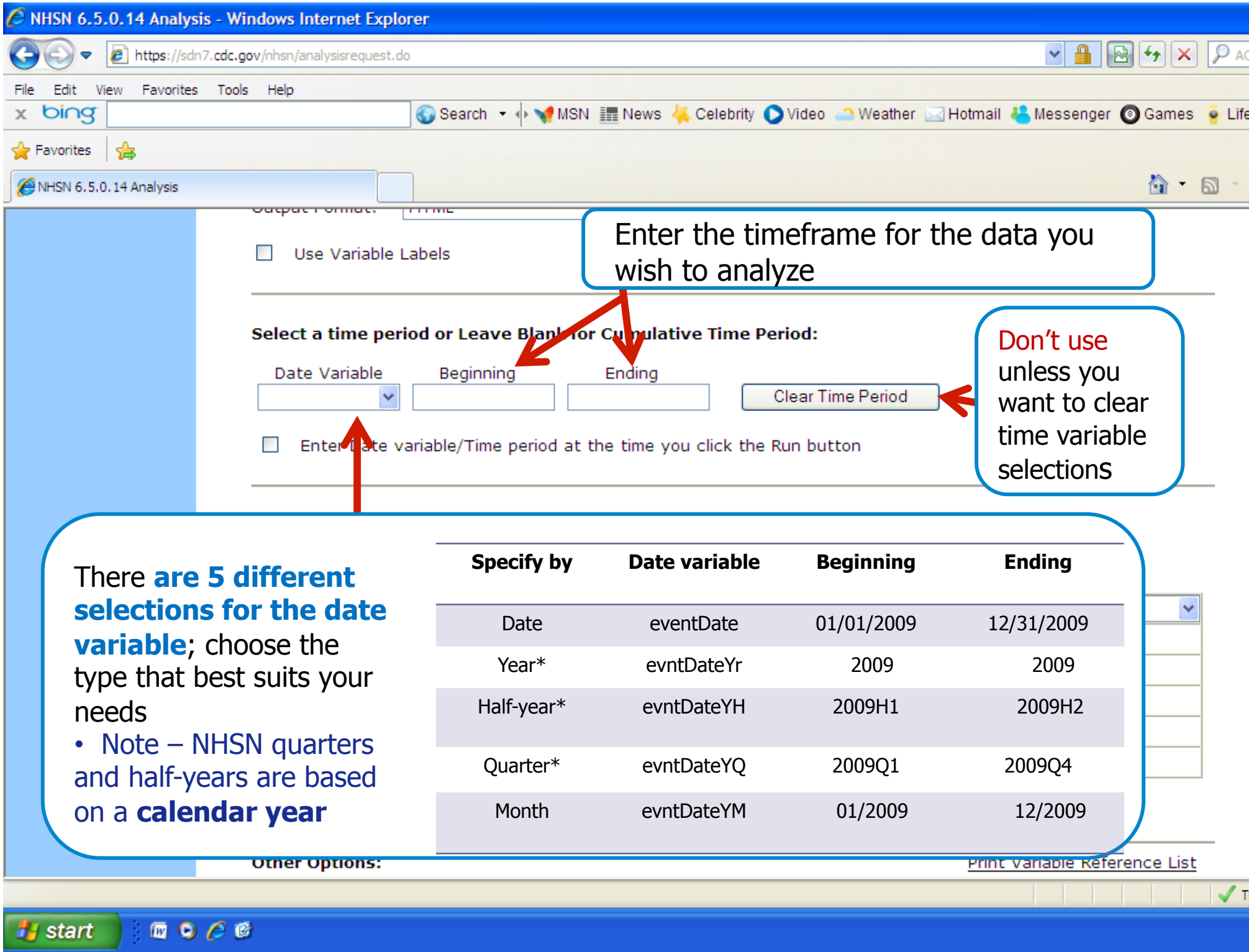
CSV – Comma separated value file

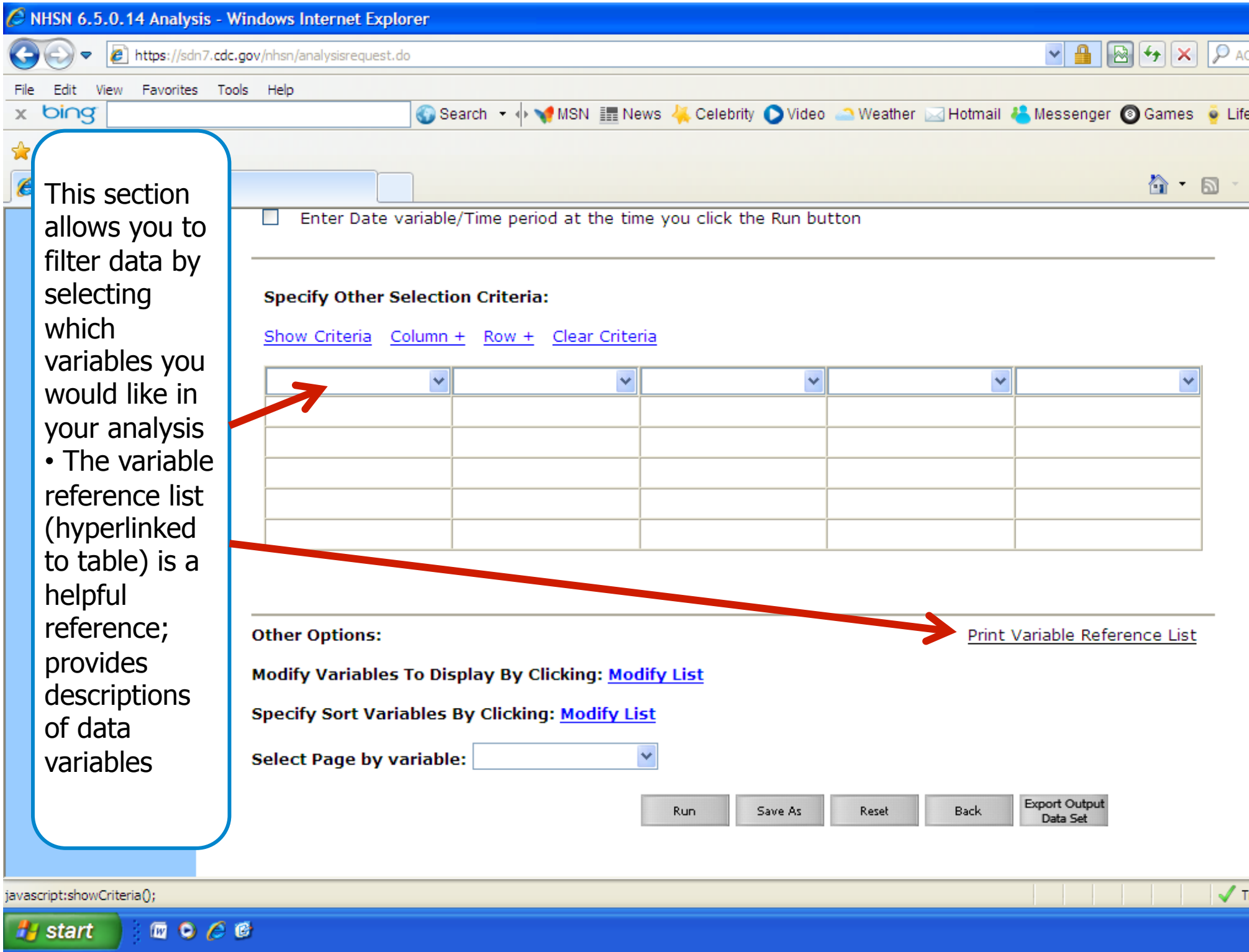
- Used when you want to export data reports from NHSN to spreadsheets (i.e. Excel)
- Exported files can be modified/manipulated within the receiving program

RTF – Rich Text Format

- Document file format developed by Microsoft for cross-platform document interchange[1]

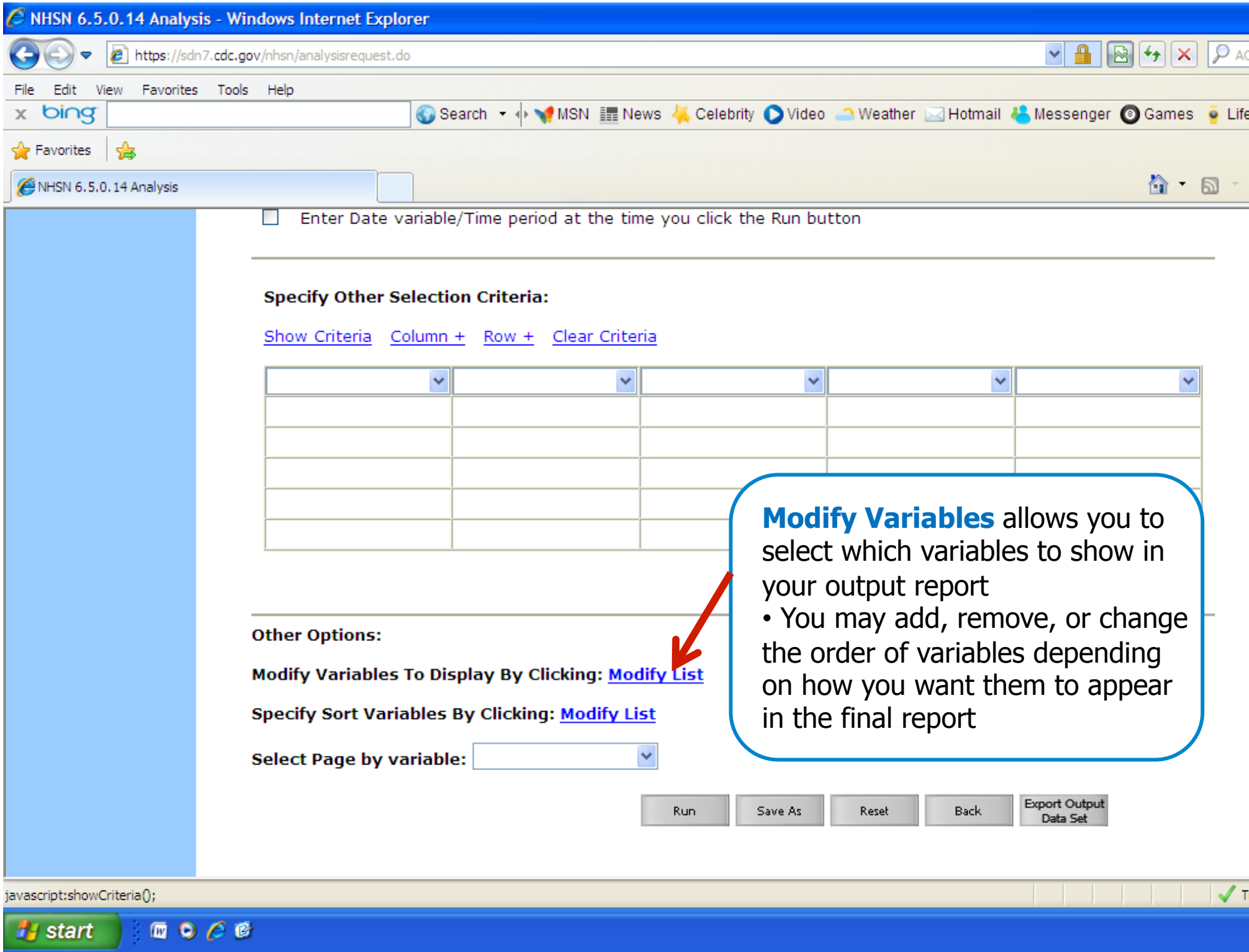
1.HTML, RTF. (n.d) Wikipedia. Retrieved from http://en.wikipedia.org/wiki/Html

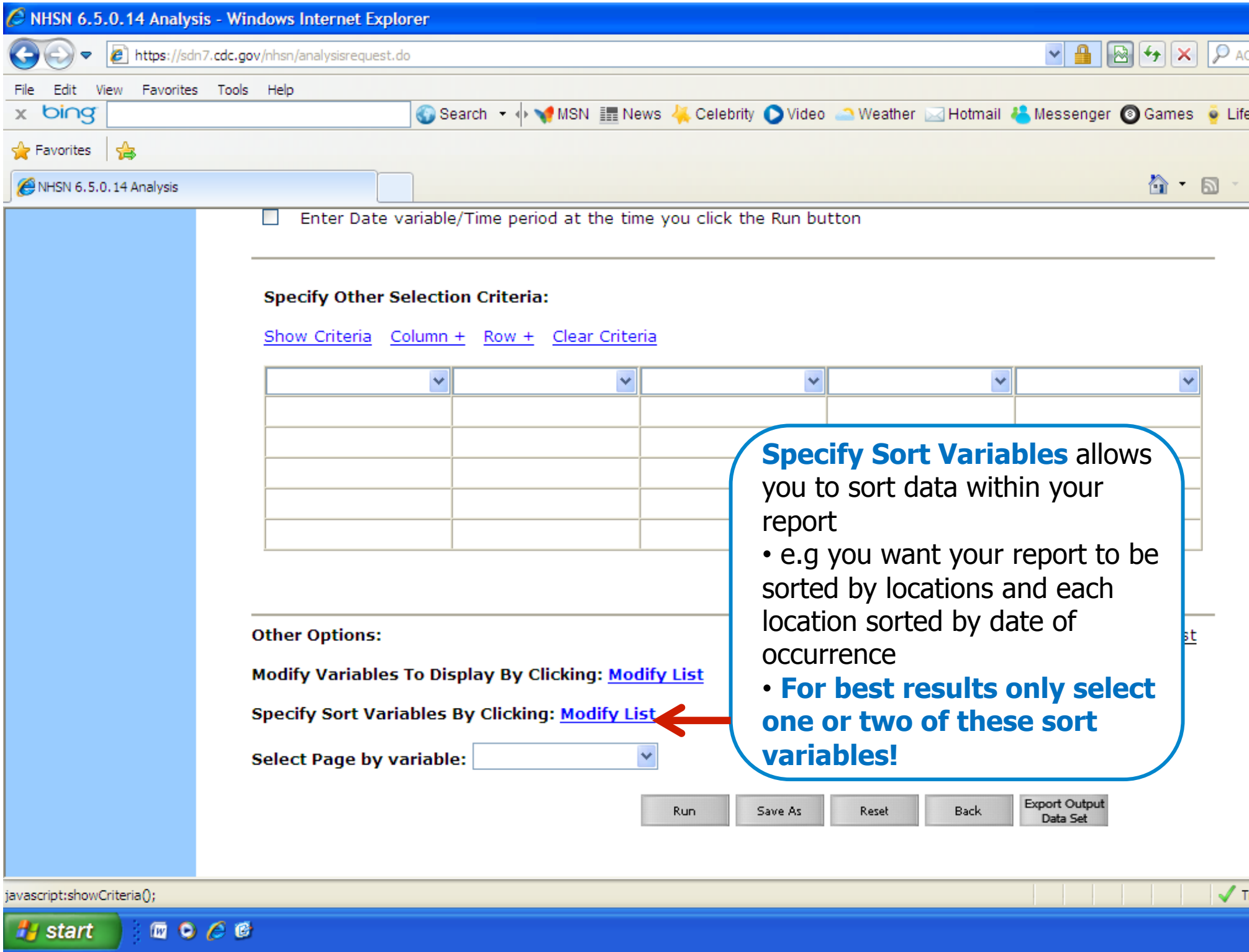

NHSN 6.5.0.14 Analysis - Windows Internet Explorer
https://sdn7.cdc.gov/nhsn/analysisrequest.do
File Edit View Favorites Tools Help
Search MSN News Celebrity Video Weather Hotmail Messenger Games
Favorites
NHSN 6.5.0.14 Analysis
Use Variable Labels
Enter the timeframe for the data you wish to analyze
Select a time period or Leave Blank for Cumulative Time Period:
Date Variable
Beginning
Ending
Clear Time Period
Enter Date variable/Time period at the time you click the Run button
Don't use unless you want to clear time variable selections
There are 5 different selections for the date variable; choose the type that best suits your needs
• Note – NHSN quarters and half-years are based on a calendar year
Specify by | Date variable | Beginning | Ending
Date | eventDate | 01/01/2009 | 12/31/2009
Year* | evntDateYr | 2009 | 2009
Half-year* | evntDateYH | 2009H1 | 2009H2
Quarter* | evntDateYQ | 2009Q1 | 2009Q4
Month | evntDateYM | 01/2009 | 12/2009
Other Options:
Print Variable Reference List
start

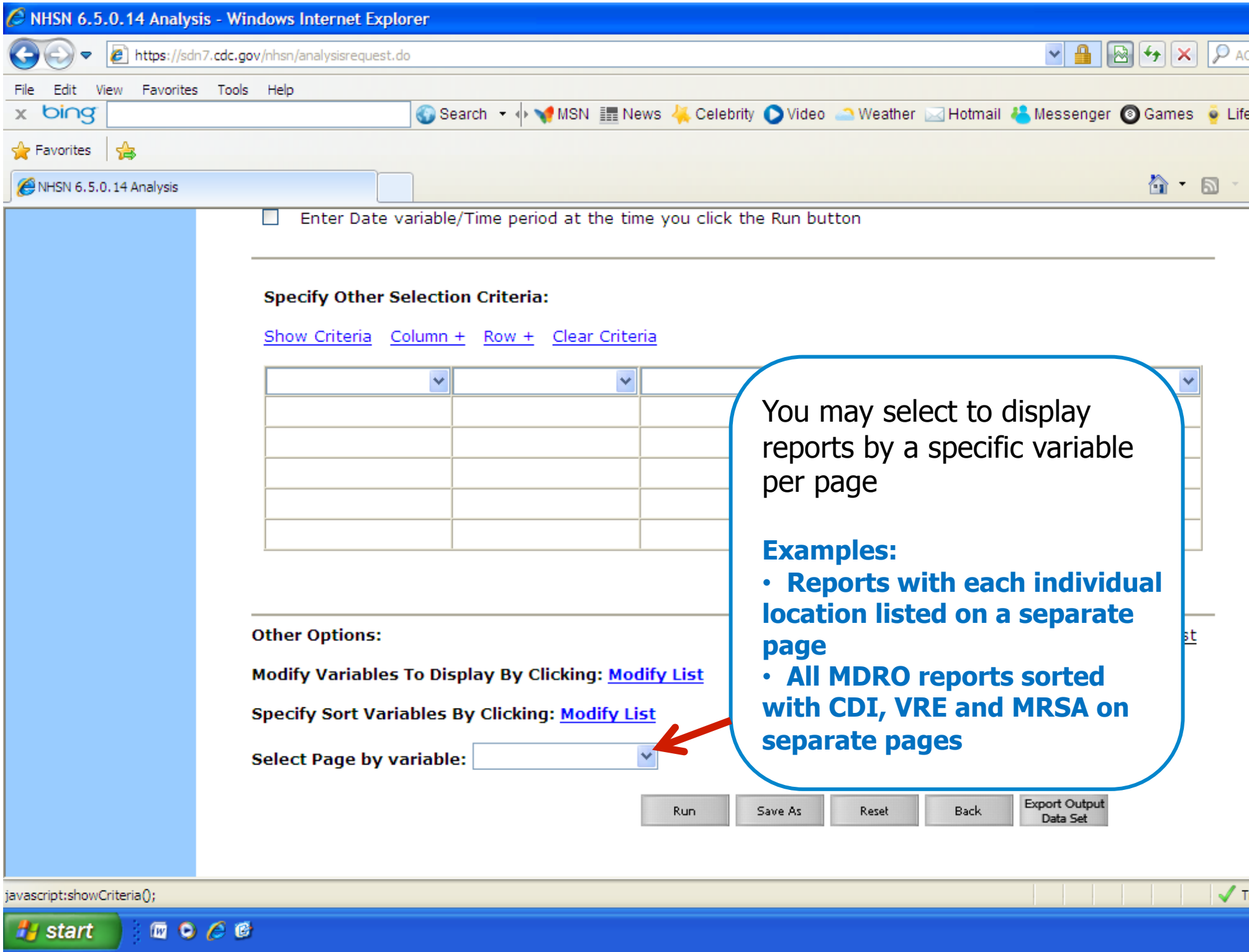


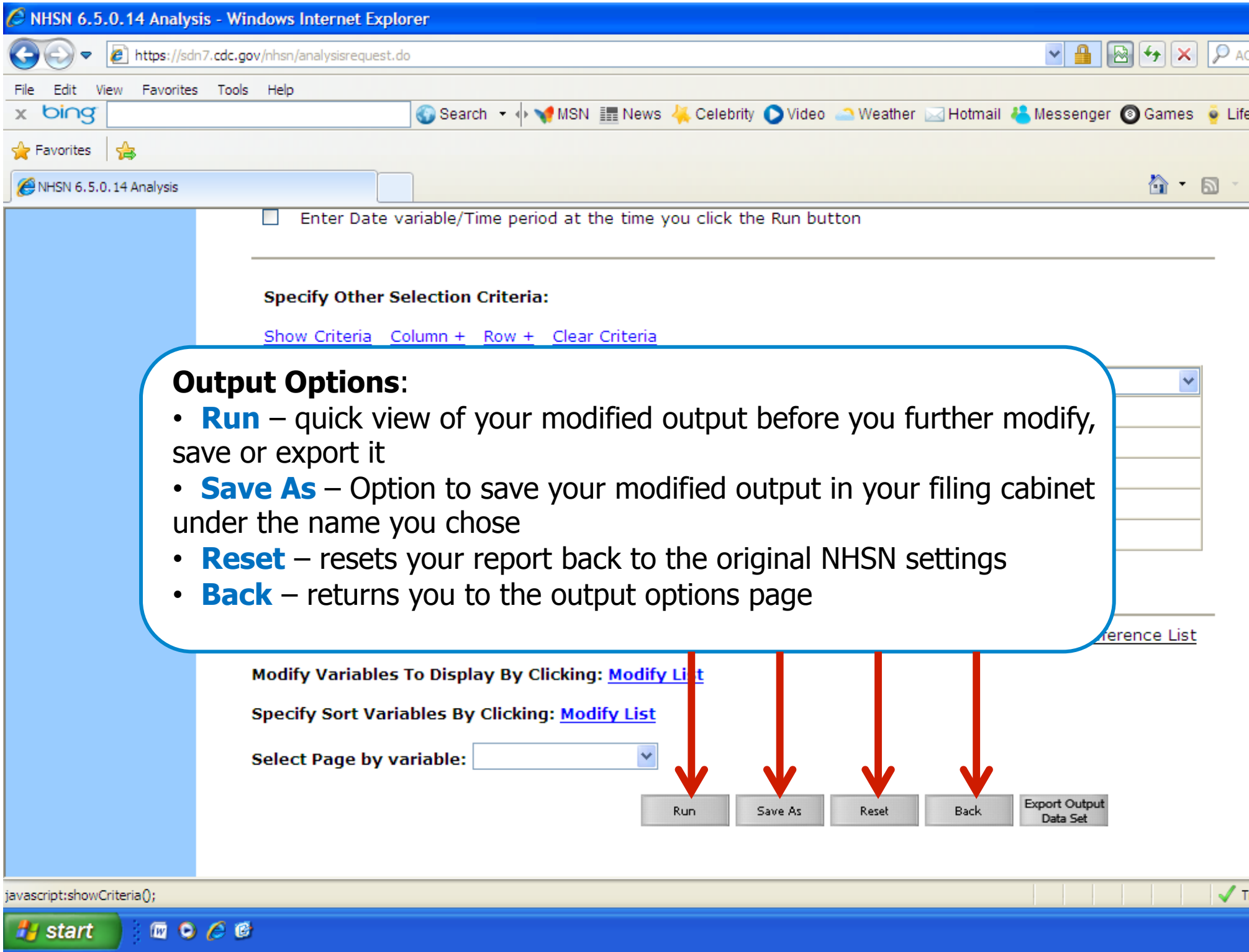
This section allows you to filter data by selecting which variables you would like in your analysis

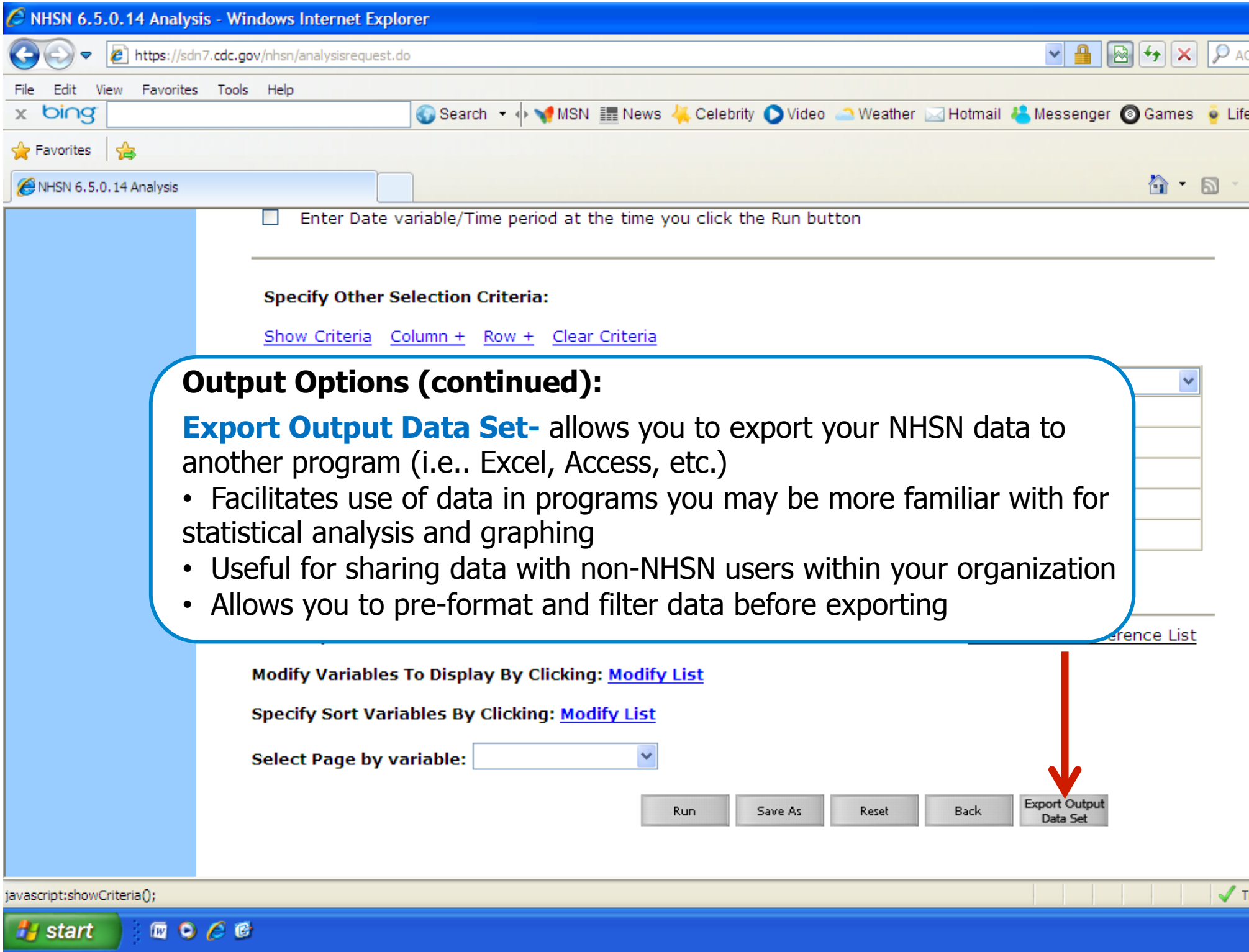
- The variable reference list (hyperlinked to table) is a helpful reference; provides descriptions of data variables

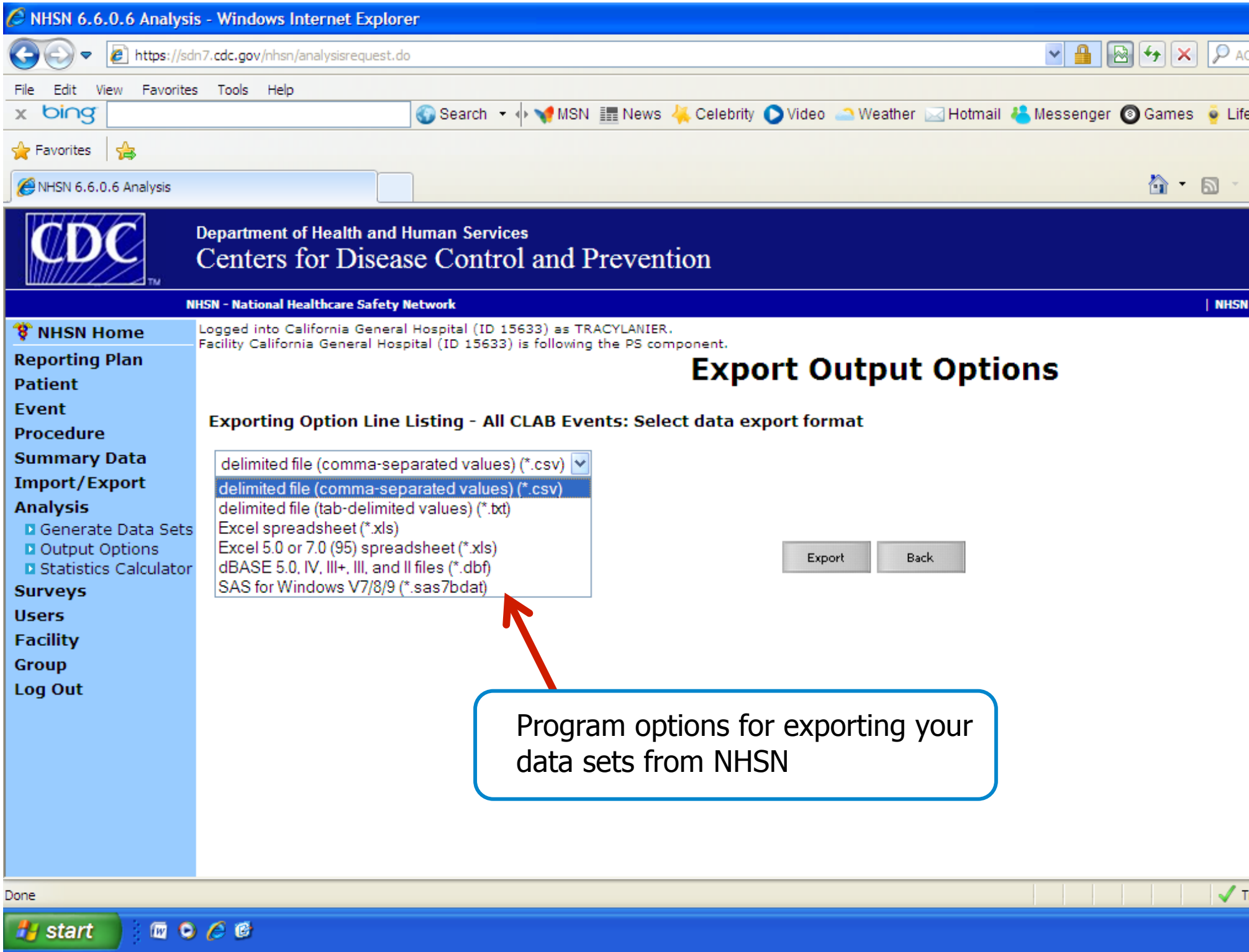

NHSN 6.5.0.14 Analysis - Windows Internet Explorer
https://sdn7.cdc.gov/nhsn/analysisrequest.do
File Edit View Favorites Tools Help
Search MSN News Celebrity Video Weather Hotmail Messenger Games
Favorites
NHSN 6.5.0.14 Analysis
Enter Date variable/Time period at the time you click the Run button
Specify Other Selection Criteria:
Show Criteria Column + Row + Clear Criteria
Other Options:
Modify Variables To Display By Clicking: Modify List
Specify Sort Variables By Clicking: Modify List
Select Page by variable:
Run Save As Reset Back Export Output Data Set
Modify Variables allows you to select which variables to show in your output report
• You may add, remove, or change the order of variables depending on how you want them to appear in the final report
javascript:showCriteria();
start


NHSN 6.5.0.14 Analysis - Windows Internet Explorer
https://sdn7.cdc.gov/nhsn/analysisrequest.do
File Edit View Favorites Tools Help
Search MSN News Celebrity Video Weather Hotmail Messenger Games
Favorites
NHSN 6.5.0.14 Analysis
Enter Date variable/Time period at the time you click the Run button
Specify Other Selection Criteria:
Show Criteria Column + Row + Clear Criteria
Other Options:
Modify Variables To Display By Clicking: Modify List
Specify Sort Variables By Clicking: Modify List
Select Page by variable:
Specify Sort Variables allows you to sort data within your report
• e.g you want your report to be sorted by locations and each location sorted by date of occurrence
• For best results only select one or two of these sort variables!
Run
Save As
Reset
Back
Export Output Data Set
javascript:showCriteria();
start


NHSN 6.5.0.14 Analysis - Windows Internet Explorer
https://sdn7.cdc.gov/nhsn/analysisrequest.do
File Edit View Favorites Tools Help
Search MSN News Celebrity Video Weather Hotmail Messenger Games
Favorites
NHSN 6.5.0.14 Analysis
Enter Date variable/Time period at the time you click the Run button
Specify Other Selection Criteria:
Show Criteria Column + Row + Clear Criteria
Other Options:
Modify Variables To Display By Clicking: Modify List
Specify Sort Variables By Clicking: Modify List
Select Page by variable:
You may select to display reports by a specific variable per page
Examples:
• Reports with each individual location listed on a separate page
• All MDRO reports sorted with CDI, VRE and MRSA on separate pages
Run
Save As
Reset
Back
Export Output Data Set
javascript:showCriteria();
start


NHSN 6.5.0.14 Analysis - Windows Internet Explorer
https://sdn7.cdc.gov/nhsn/analysisrequest.do
File Edit View Favorites Tools Help
Search MSN News Celebrity Video Weather Hotmail Messenger Games
Favorites
NHSN 6.5.0.14 Analysis
Enter Date variable/Time period at the time you click the Run button
Specify Other Selection Criteria:
Show Criteria Column + Row + Clear Criteria
Output Options:
• Run – quick view of your modified output before you further modify, save or export it
• Save As – Option to save your modified output in your filing cabinet under the name you chose
• Reset – resets your report back to the original NHSN settings
• Back – returns you to the output options page
Modify Variables To Display By Clicking: Modify List
Specify Sort Variables By Clicking: Modify List
Select Page by variable:
Run
Save As
Reset
Back
Export Output Data Set
javascript:showCriteria();
start


NHSN 6.5.0.14 Analysis - Windows Internet Explorer
https://sdn7.cdc.gov/nhsn/analysisrequest.do
File Edit View Favorites Tools Help
Search MSN News Celebrity Video Weather Hotmail Messenger Games
Favorites
NHSN 6.5.0.14 Analysis
Enter Date variable/Time period at the time you click the Run button
Specify Other Selection Criteria:
Show Criteria Column + Row + Clear Criteria
Output Options (continued):
Export Output Data Set- allows you to export your NHSN data to another program (i.e.. Excel, Access, etc.)
• Facilitates use of data in programs you may be more familiar with for statistical analysis and graphing
• Useful for sharing data with non-NHSN users within your organization
• Allows you to pre-format and filter data before exporting
Modify Variables To Display By Clicking: Modify List
Specify Sort Variables By Clicking: Modify List
Select Page by variable:
Run
Save As
Reset
Back
Export Output Data Set
javascript:showCriteria();
start


NHSN 6.6.0.6 Analysis - Windows Internet Explorer
https://sdn7.cdc.gov/nhsn/analysisrequest.do
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Favorites
NHSN 6.6.0.6 Analysis
Department of Health and Human Services
Centers for Disease Control and Prevention
NHSN - National Healthcare Safety Network
NHSN Home
Reporting Plan
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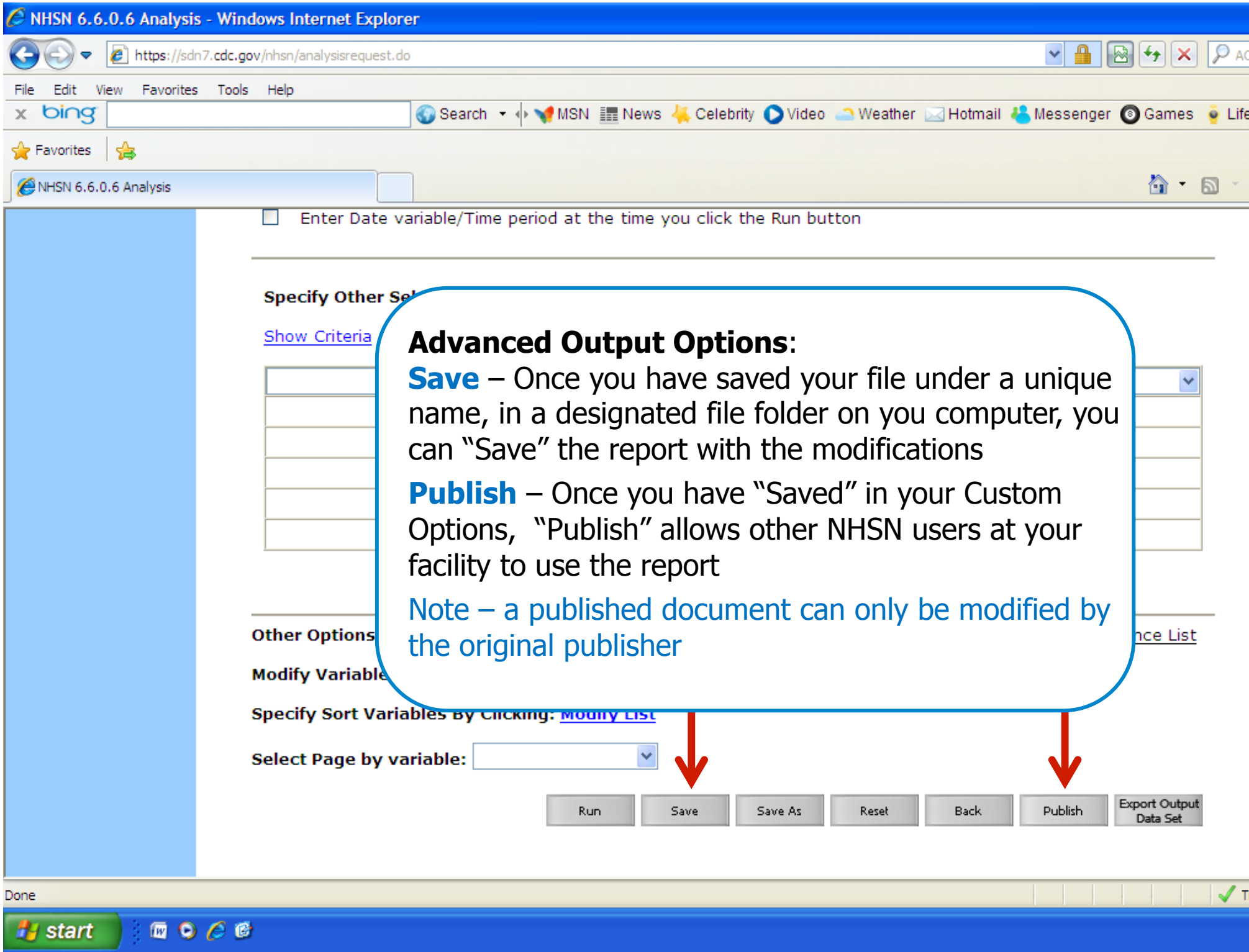
Event
Procedure
Summary Data
Import/Export
Analysis
Generate Data Sets
Output Options
Statistics Calculator
Surveys
Users
Facility
Group
Log Out
Logged into California General Hospital (ID 15633) as TRACYLANIER.
Facility California General Hospital (ID 15633) is following the PS component.
Export Output Options
Exporting Option Line Listing - All CLAB Events: Select data export format
delimited file (comma-separated values) (*.csv)
delimited file (comma-separated values) (*.csv)
delimited file (tab-delimited values) (*.txt)
Excel spreadsheet (*.xls)
Excel 5.0 or 7.0 (95) spreadsheet (*.xls)
dBASE 5.0, IV, III+, III, and II files (*.dbf)
SAS for Windows V7/8/9 (*.sas7bdat)
Export
Back
Program options for exporting your data sets from NHSN
Done
start


NHSN 6.6.0.6 Analysis - Windows Internet Explorer
https://sdn7.cdc.gov/nhsn/analysisrequest.do
File Edit View Favorites Tools Help
Search MSN News Celebrity Video Weather Hotmail Messenger Games
Favorites
NHSN 6.6.0.6 Analysis
Enter Date variable/Time period at the time you click the Run button
Specify Other Sel
Show Criteria
Other Options
Modify Variable
Specify Sort Variables By Clicking: Modify List
Select Page by variable:
Run
Save
Save As
Reset
Back
Publish
Export Output Data Set
Done
start
Advanced Output Options:
Save – Once you have saved your file under a unique name, in a designated file folder on you computer, you can "Save" the report with the modifications
Publish – Once you have "Saved" in your Custom Options, "Publish" allows other NHSN users at your facility to use the report
Note – a published document can only be modified by the original publisher

That's all there is to NHSN Analysis Basics!

Remember:

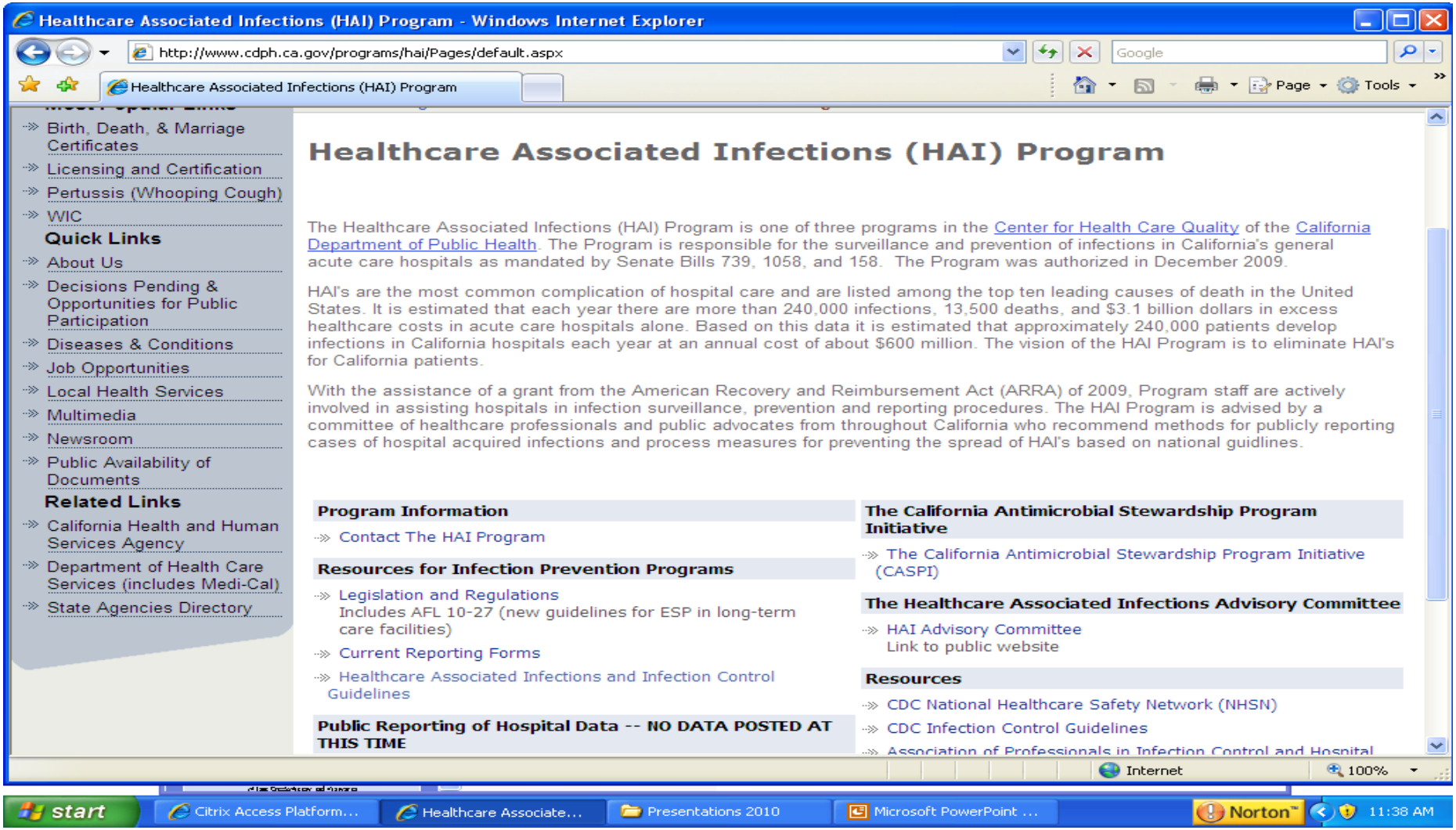
- Generate a new data set if you want to create output (ie. A report) and have entered new data
- **PRACTICE!** You are working with a copy of your data and won't harm the data you have entered into the NHSN database
- Print and use the **NHSN Analysis Quick Tips** as a reference

CDPH California Department of PublicHealth

Healthcare-associated Infections HAI Elimination

HAI Program Website

www.cdph.ca.gov/programs/HAI/



Questions?

Your more information, please contact

InfectionControl@cdph.ca.gov
or
Your HAI Liaison IP